FORM APPROVED OMB No. 1004-0137 Expires March 31, 2007

# UNTIED STATES

4001104710N			
BUREAU OF LAND	MA	NAGEMI	ENT
DEPARTMENT OF	THE	INTERI	OR

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT			5. Lease Serial No. UTU-66421			
APPLICATION FOR PERMIT TO I				6. If Indian, Allotee or Tribe Name		
Ia. Type of work: ✓ DRILL REENTER			7. If Unit or CA Agre	eement, Na	me and No.	
lb. Type of Well: ☐ Oil Well	Sir	ngle Zone 🚺 Multip	ole Zone	8. Lease Name and Federal H 34-		
2. Name of Operator Summit Operating LLC				9. API Well No. 43-0	47-3	8883
3a. Address P.O. Box 683909 Park City UT, 84068		o. (include area code) 0-9001		10. Field and Pool, or Natural Butte	Explorator	у
4. Location of Well (Report location clearly and in accordance with any At surface 649234/602' FSL & 2088' FEL SW 1/4 S/I	34	1914339 1914339 191253944	<del>)</del>	11. Sec., T. R. M. or E Sec. 30, T10S.		rvey or Area
At proposed prod. zone same as above 4 419 499 \	- / (		•			12 (1
<ol> <li>Distance in miles and direction from nearest town or post office*</li> <li>Approximately 65.8 miles in a southeasterly direction from</li> </ol>	n Vernal UT	Γ		12. County or Parish Uintah		13. State UT
15. Distance from proposed* location to nearest	16. No. of a	acres in lease	17. Spacin	g Unit dedicated to this	well	<u> </u>
property or lease line, ft. (Also to nea est drig. unit line, if any)	2,240 Acı	res	40 Ac	res		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.  1,600'			M/BIA Bond No. on file B-000014			
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22 Approxi	mate date work will star	rt*	23. Estimated duration	on	
5,312 GR		12/01/2006	· · · · · · · · · · · · · · · · · · ·	30 Days		
The City of the Ci	24. Atta					
<ol> <li>The following, completed in accordance with the requirements of Onshor</li> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office).</li> </ol>		Bond to cover the learn 20 above).     Operator certification.	he operatio	is form:  ns unless covered by an ormation and/or plans a		
25. Signature	Name	(Printed Typed)			Date	1.//2005
Title Agent Agent		Ginger Stringham		,	02/	16/2007
Approved by (Stephanic)	B	(Printed Typed)  BRADLEY G			Date	3-01-07
Title		IVIRONMENTAL I				
Application approval does not warrant or certify that the applicant hold conduct operations thereon.  Conditions of approval, if any, are attached.	is legalorequ	itable title to those righ	its in the sub	ojectlease which would	entitle the	applicant to
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a c States any false, fictitious or fraudulent statements or representations as	rime for any p	person knowingly and within its jurisdiction.	willfully to r	nake to any department	or agency	of the United

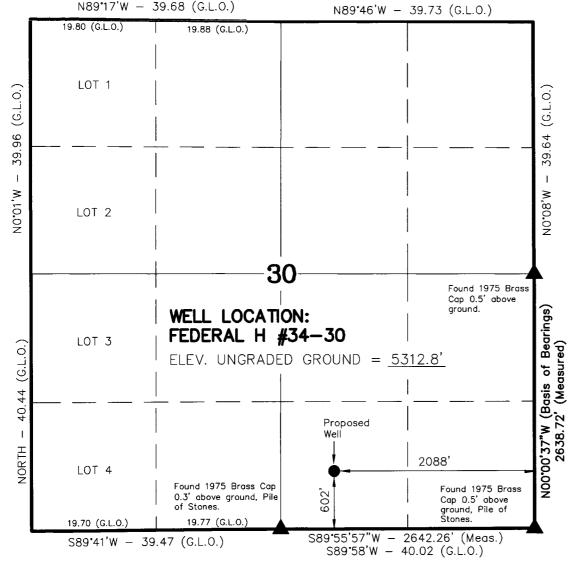
\*(Instructions on page 2)

Federal Approval of this Action is Necessary

**RECEIVED** FEB 2 2 2007

### T10S, R24E, S.L.B.&M.

### N89\*46'W - 39.73 (G.L.O.)



#### = SECTION CORNERS LOCATED

BASIS OF ELEVATION IS BENCH MARK 87 EAM 1965 LOCATED IN THE SE 1/4 SW 1/4 OF SECTION 1, T12S, R23E, S.L.B.&M. THE ELEVATION OF THIS BENCH MARK IS SHOWN ON THE ARCHY BENCH SE 7.5 MIN. QUADRANGLE AS BEING 5887'.

FEDERAL H #34-30 (Proposed Well Head) NAD 83 Autonomous

LATITUDE =  $39^{\circ} 54' 51.80''$ LONGITUDE = 109° 15' 17.23"

#### SUMMIT OPERATING, LLC

WELL LOCATION, FEDERAL H #34-30, LOCATED AS SHOWN IN THE SW 1/4 SE 1/4 OF SECTION 30, T10S, R24E, S.L.B.&M UINTAH COUNTY, UTAH.



#### NOTES:

- 1. Well footages are measured at right angles to the Section Lines.
- 2. Bearings are based on Global Positioning Satellite observations.

THIS IS TO CERTIFY THAT THE BOVE PLAT WAS PREPARED FROM FIELD NOTES AND ABJUAL SURVEYS MADE BY ME OR UNDER MY SUPERISSION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BEING 362251

#### TIMBERLINE LAND SURVEYING, INC.

38 WEST 100 NORTH. - VERNAL, UTAH 84078 (435) 789-1365

DATE SURVEYED: 10-26-06	SURVEYED BY: B.J.S.	SHEET
DATE DRAWN: 10-27-06	DRAWN BY: M.W.W.	2
SCALE: 1" = 1000'	Date Last Revised: 02-12-07	OF 10

### Ten Point Plan

## **Summit Operating LLC**

**Federal H #34-30** 

Surface Location SW 1/4 SE 1/4,

Section 30, T10S. R24E.

## 1. Surface Formation Green River

#### 2. Estimated Formation Tops and Datum:

Formation		Depth	Subsea
Green River		Surface	+5,312'G.R.
Wasatch	Oil/Gas	2,580'	+2,732'
Mesa Verde	Oil/Gas	4,480'	+ 832'
Mancos	Oil/Gas	6,300'	- 988'
TD		7,100'	-1,788'

All fresh water prospectively valuable minerals encountered during drilling will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

#### 3. Producing Formation Depth:

Objective Formations include the Wasatch 2,580'- 4,480', Mesa Verde 4,480'- 6,300' and the Mancos 6,300'- 7,100'.

#### 4. Proposed Casing:

Hole	Casing			Coupling	Casing	
<u>Size</u>	<u>Size</u>	Weight/FT	<u>Grade</u>	& Tread	<u>Depth</u>	New/Used
17 1/4	13 3/8	61#	N-80	ST&C	300'	NEW
12 1/4	8 5/8	24#	N-80	ST&C	2,500'	NEW
7 7/8	4 1/2	11.6#	N-80	LT&C	7,100'	NEW

#### **Cement Program:**

#### Surface casing will be cemented as follows from 0'-300':

Note: Cement Volume = Gauge hole + 50%

ı	Casing <u>Size</u>	Cement Type	Cement Amounts	Cement <u>Yield</u>	Water <u>Mix</u>	Cement <u>Weight</u>
Lead:		Class "G" pag mix ready mix	360 sks +/-	1.18ft³/sk	5	15.6 ppg

### Intermediate casing will be cemented as follows from 0'- 2,500':

### Cement volume = Gauge hole + 50%

	Casing Size	Cement <u>Type</u>	Cement Amounts	Cement <u>Yield</u>	Water <u>Mix</u>	Cement Weight
Lead:						
	8 5/8"	Premium "5" 16% Gel 10#/sk Gilsonite 3% Salt 3#/sk GB3 0.25#/sk Flocele	700 sks. +/-	3.82ft <sup>3</sup> /sk	23	11.0 ppg

#### Production casing will be cemented as follows from 2,380'- 7,100:

Note: Lead should be 200' above the Wasatch.

Cement volume = Gauge hole + 25%

	Casing <u>Size</u>	Cement <u>Type</u>	Cement Amounts	Cement <u>Yield</u>	Water <u>Mix</u>	Cement <u>Weight</u>
Lead:						
	4 ½"	Premium "5" 16% Gel 10#/sk Gilsonite 3% Salt 3#/sk GB3 0.25#/sk flocele	920 sks. +/-	3.82ft³/sk	23	11.0 ppg

#### 5. BOP and Pressure Containment Data:

A 3000-psi WP BOP system as described in the BOP and Pressure Containment Data (attached) will be installed and maintained from the 13 3/8" surface casing. An upper kelly cock to the required pressure rating with a handle available shall be employed.

The BOP system including the casing will be pressure tested to minimum standards set forth in "On Shore Order #2". The BOP will be mechanically checked daily during the drilling operation.

#### 6. Mud Program:

Interval	Mud weight lbs./gal.	Viscosity Sec./OT.	Fluid Loss MI/30 Mins.	Mud Type
0-2,300 2,300-T.D.	Air/Clear Water 8.4-12.0	30-45	No Control 8-10	Water/Gel LSND water based mud system

**Note:** Mud weights may exceed 12.0 due to solids increasing at or near T.D. Increased weights are not required to control formation pressure. Operator will have on location sufficient mud and weight material to increase mud weight to 12.0 at any time while drilling the subject well. Visual mud monitoring incorporating pit level indicators shall be used.

#### 7. Testing, Coring, Sampling and Logging:

DST: a)

None are anticipated.

Coring: b)

There is the possibility of sidewall coring.

c)

Mud Sampling: Every 10' from 2,300' to T.D.

Logging: d)

Type

Interval

DLL/SFL W/GR and SP FDC/CNL W/GR and CAL

T.D. to Surf. Csg T.D. to Surf. Csg

#### 8. Abnormalities (including sour gas)

Anticipated bottom hole pressure will be less than 3000 psi. No abnormal pressures, temperatures or other hazards are anticipated. Other wells drilled in the area have not encountered over pressured zones or H2S.

#### 9. Other facets of the proposed operation:

Off set well information:

**Producing Wells:** 

**Shut in Wells:** 

**FED H 21-31** 

FED H 14-30

FED H 12-30

#### 10. Drilling Schedule:

The anticipated starting date is upon approval. Duration of operations is expected to be 30 days.

- 13. Lessees or Operator's representative and certification
  - A) Representative

Ginger Stringham Paradigm Consulting PO BOX 790203 Vernal, UT 84079

Office 435-789-04162 Fax 435-789-8188 Cellular 435-790-4163

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, onshore oil and gas orders, and any applicable notices to lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance. This drilling permit will be valid for a period of one year from the date of approval. After permit termination, a new application will be filed for approval for any future operations.

#### B) Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill-site and access route that I am familiar with the conditions which presently exist, that the statements made in this plan are, to the best of my knowledge and belief, true and correct, and that the work associated with the operation

proposed herein will be preformed by Summit Operating, LLC and its contractors and subcontractors in conformity with this plan and terms and conditions with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for filing of a false statement.

#### **Onsite Dates:**

#### **Self Certification Statement**

The following self-certification statement is provided per Federal requirements dated June 15, 1988.

Please be advised that Summit Operating, LLC is considered to be the operator of the following well:

Federal H #34-30 Section 30, T. 10S, R. 24E SW ¼ of the SE ¼ Lease UTU-66421 Uintah County, Utah

The Summit Operating, LLC is responsible under the terms and conditions of the lease for the operations conducted upon the lease lands.

Bond UTB-000014 provides state-wide bond coverage on all Federal Lands.

Ginger Stringham, Agent

Ginger Stringham, Agent Paradigm Consulting

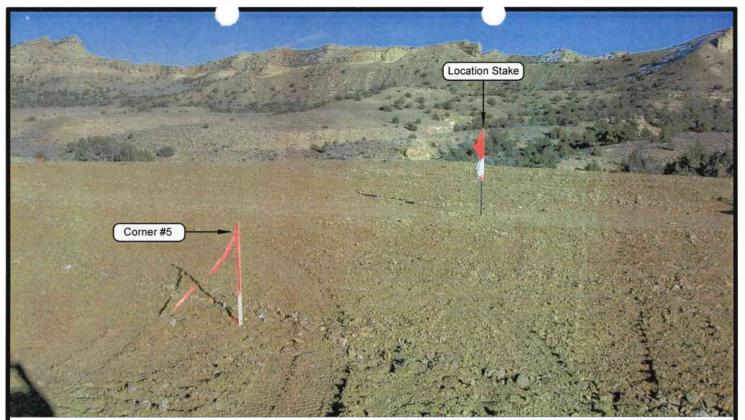


PHOTO VIEW: FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHEASTERLY

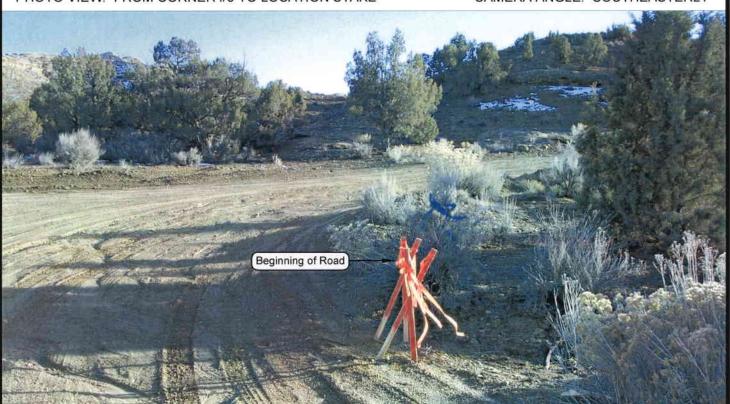


PHOTO VIEW: FROM BEGINNING OF ACCESS ROAD

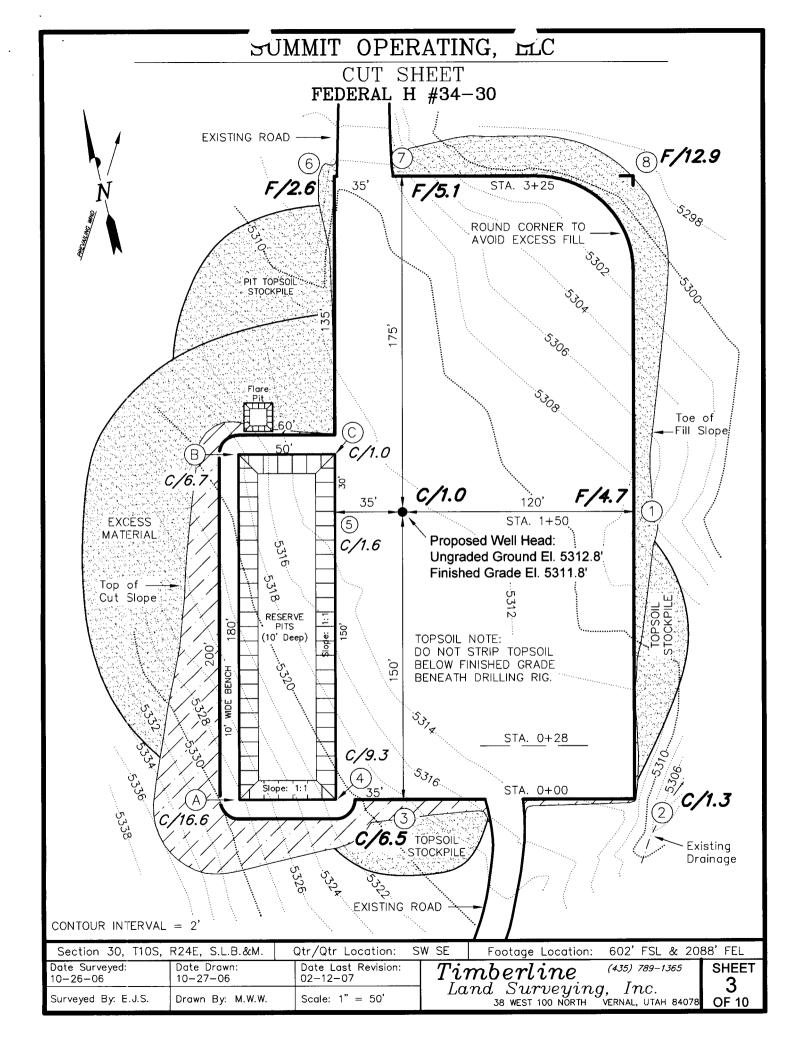
CAMERA ANGLE: SOUTHWESTERLY

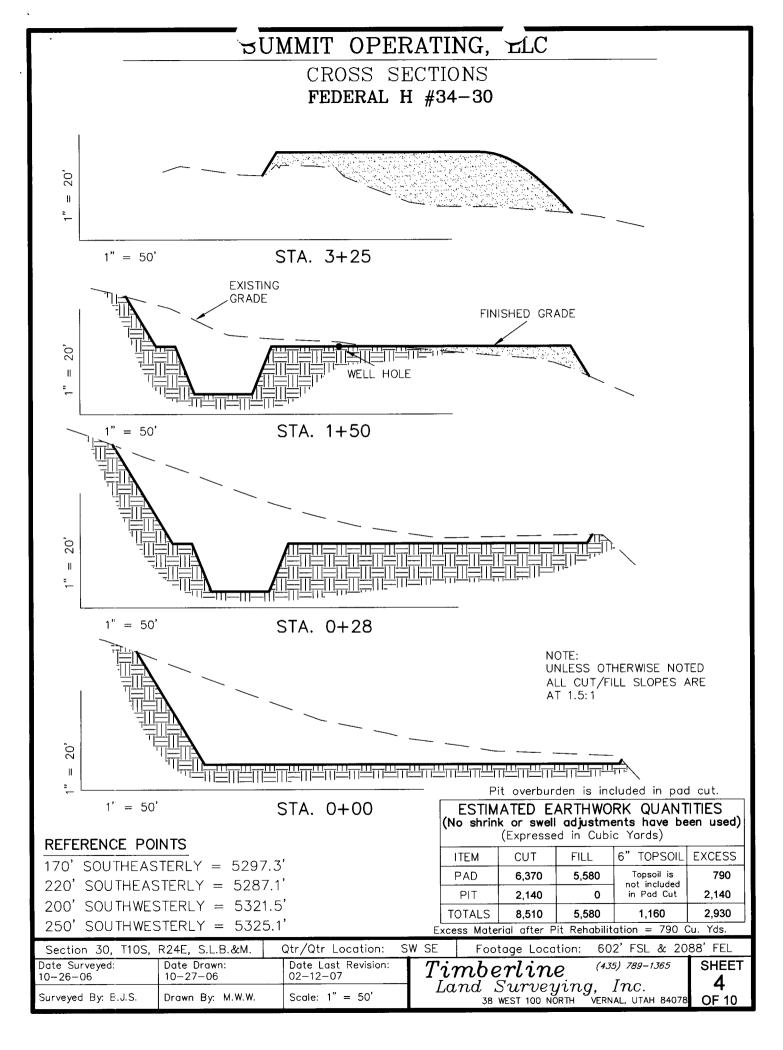
### **SUMMIT OPERATING, LLC**

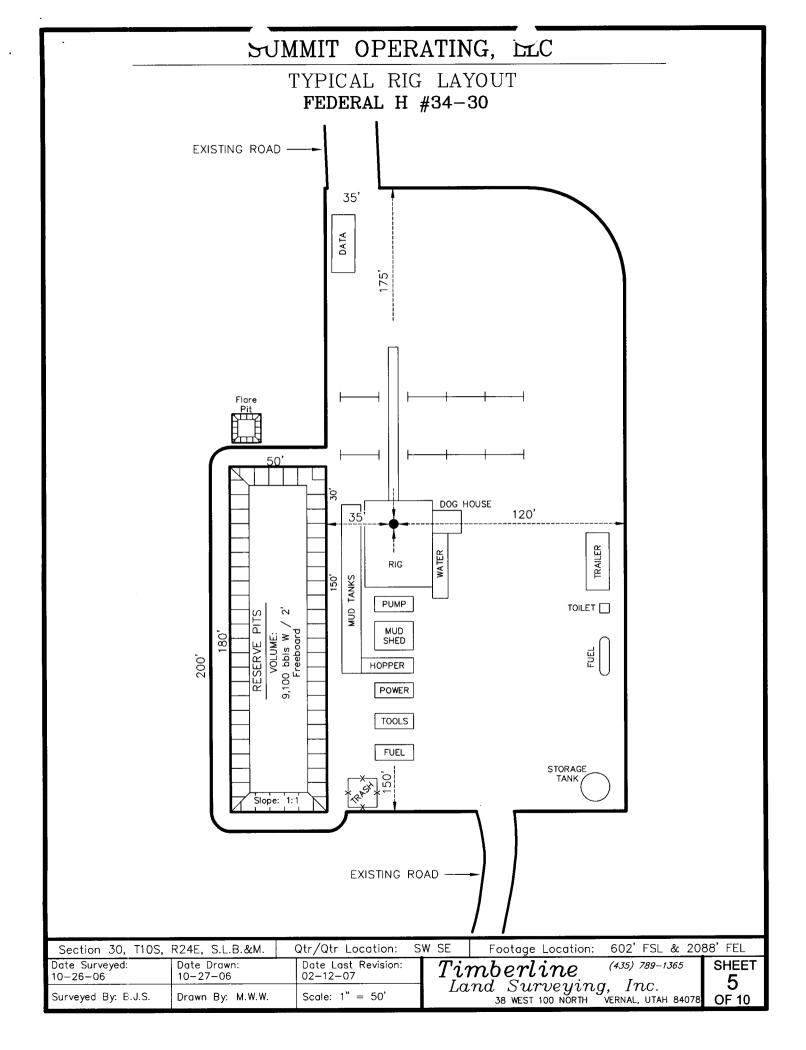
FEDERAL H #34-30 SECTION 30, T10S, R24E, S.L.B.&M. 602' FSL & 2088' FEL

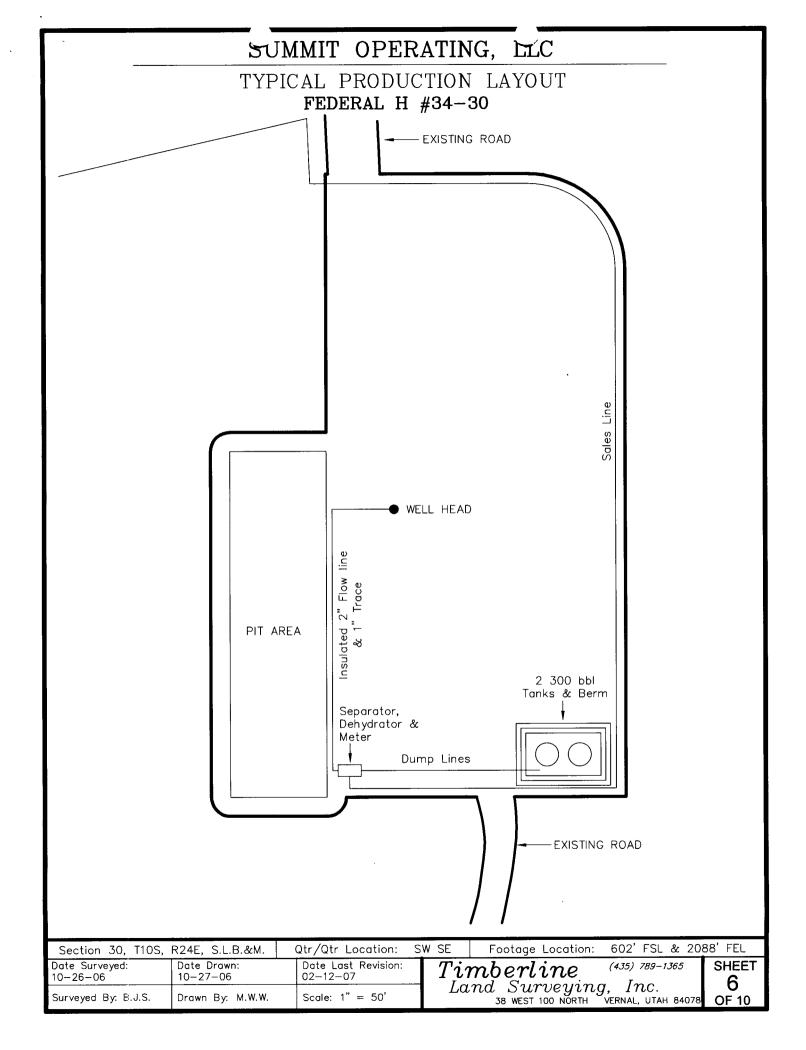
LOCATION	DATE TAKEN: 10-26-06	
LOCATION	1110105	DATE DRAWN: 10-27-06
TAKEN BY: B.J.S.	DRAWN BY: M.W.W.	REVISED: 02-12-07

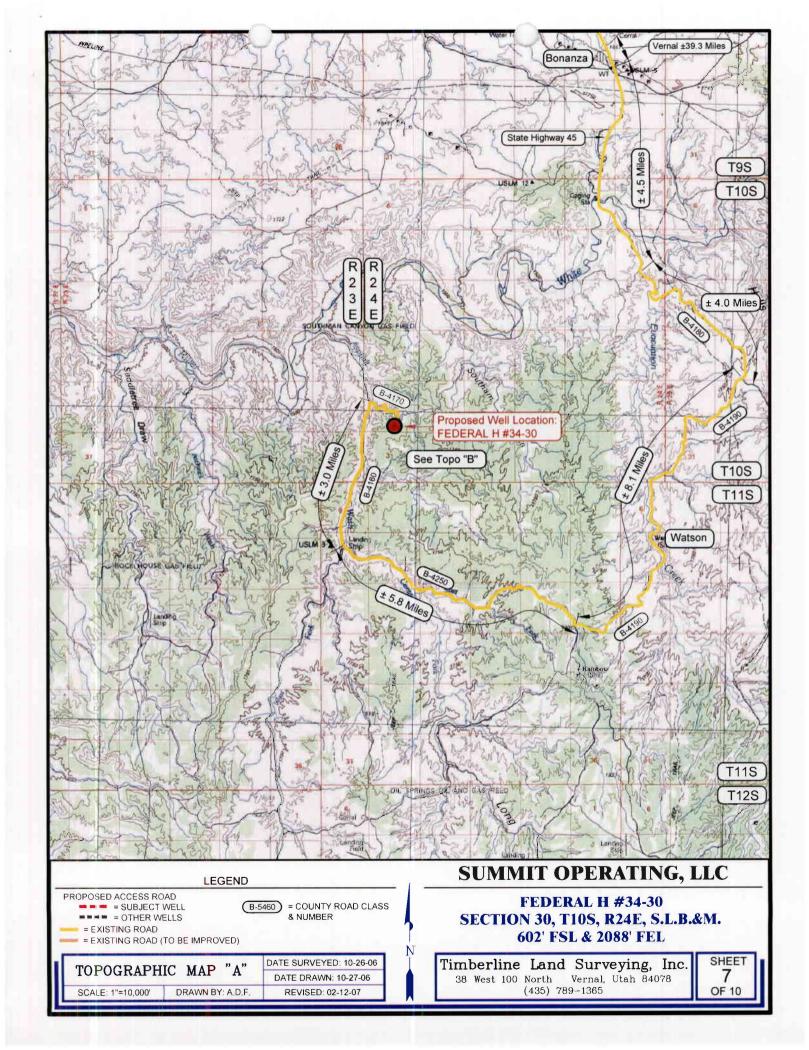
Timberline Land Surveying, Inc. 38 West 100 North Vernal, Utah 84078 (435) 789-1365 SHEET 1 OF 10

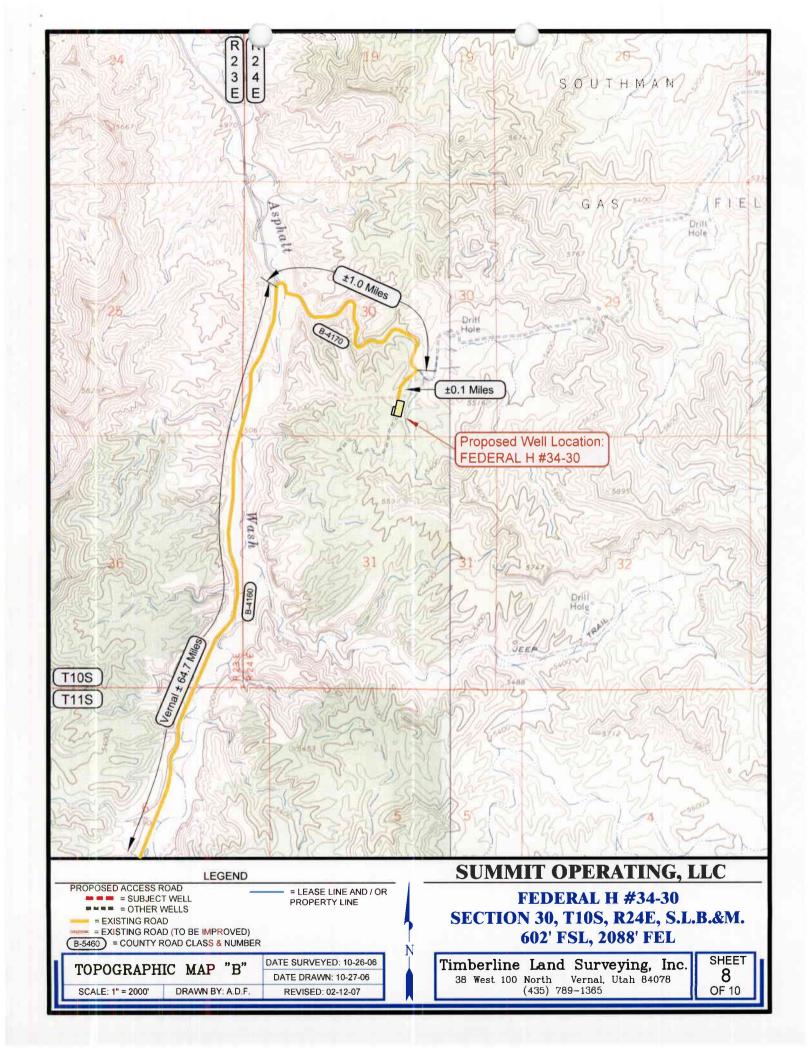


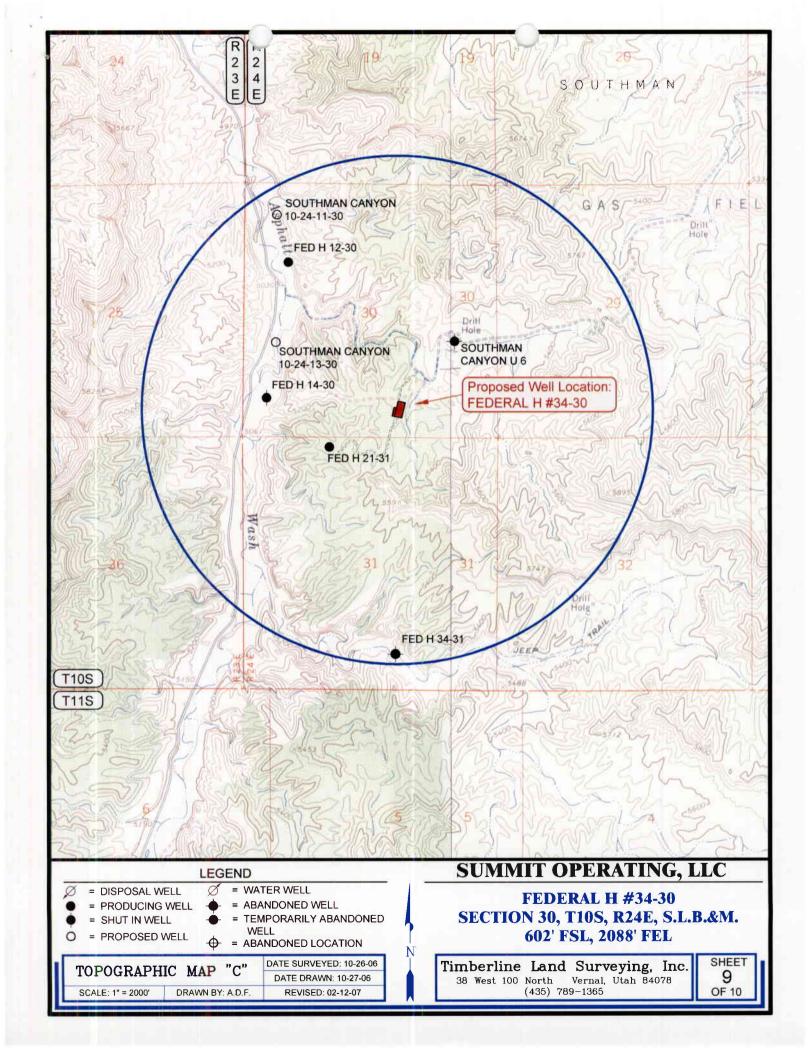


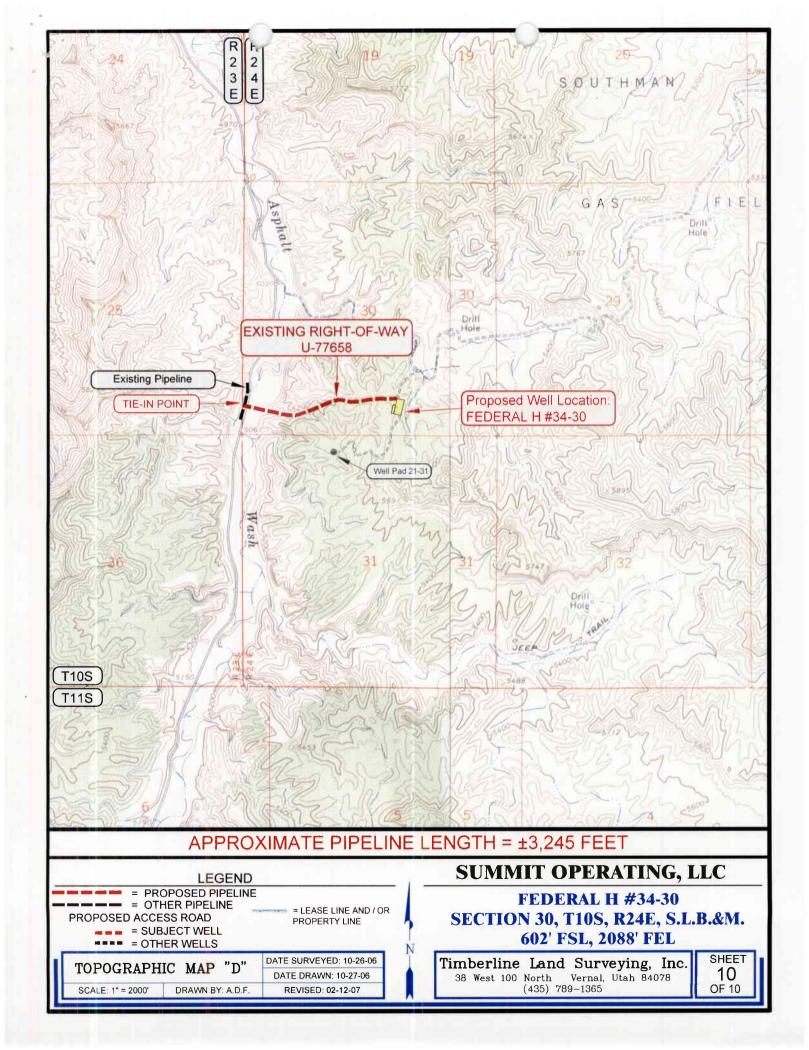












## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 02/22/2007	API NO. ASSIGNED: 43-047-38883			
WELL NAME: FEDERAL H 34-30  OPERATOR: SUMMIT OPERATING LLC ( N2315 )  CONTACT: GINGER STRINGHAM	PHONE NUMBER: 435-940-9001			
PROPOSED LOCATION:	INSPECT LOCATN BY: / /			
SWSE 30 100S 240E	Tech Review Initials Date			
SURFACE: 0602 FSL 2088 FEL BOTTOM: 0602 FSL 2088 FEL	Engineering			
COUNTY: UINTAH	Geology			
LATITUDE: 39.91434 LONGITUDE: -109.2540 UTM SURF EASTINGS: 649236 NORTHINGS: 4419	Surface			
FIELD NAME: NATURAL BUTTES (630				
LEASE TYPE: 1 - Federal  LEASE NUMBER: UTU-66421  SURFACE OWNER: 1 - Federal	PROPOSED FORMATION: MINCS COALBED METHANE WELL? NO			
RECEIVED AND/OR REVIEWED:	LOCATION AND SITING:			
Plat				
STIPULATIONS:  1 leder Aproximation of the property of the pro				

T10S R23E T10S R24E SOUTHMAN CYN 10-24-11-30 💿 **NATURAL BUTTES FIELD** FED H 12-30 30 SOUTHMAN CYN 10-24-13-30 **⊕** SOUTHMAN CANYON U 6 HD II 14-30 FEDERAL H 34-30 FEDERAL H 34-30 FED 11 21-31 **OPERATOR: SUMMIT OPER LLC (N2315)** SEC: 30 T.10S R. 24E **FIELD: NATURAL BUTTES (630) COUNTY: UINTAH** Wells Status SPACING: R649-3-2 / GENERAL SITING Utah Oil Gas and Mining **GAS INJECTION** GAS STORAGE LOCATION ABANDONED NEW LOCATION PLUGGED & ABANDONED Unit Status
EXPLORATORY
GAS STORAGE
NF PP OIL
NF SECONDARY
PENDING **Field Status** ■ ABANDONED PRODUCING GAS PRODUCING OIL ACTIVE **SHUT-IN GAS** COMBINED **SHUT-IN OIL** ■ INACTIVE TEMP. ABANDONED PI OIL × PROPOSED **TEST WELL** PP GAS STORAGE WATER INJECTION PP GEOTHERML TERMINATED PP OIL WATER SUPPLY PREPARED BY: DIANA MASON SECONDARY WATER DISPOSAL DATE: 28-FEBRUARY-2007 TERMINATED DRILLING



State of Utah

Department of Natural Resources

MICHAEL R. STYLER Executive Director

Division of Oil, Gas & Mining

JOHN R. BAZA
Division Director

JON M. HUNTSMAN, JR. Governor

GARY R. HERBERT Lieutenant Governor

March 1, 2007

Summit Operating LLC P O Box 683909 Park City, UT 84068

Re: Federal H 34-30 Well, 602' FSL, 2088' FEL, SW SE, Sec. 30, T. 10 South, R. 24 East, Uintah County, Utah

#### Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-38883.

Sincerely,

Gil Hunt

Associate Director

Til That

pab Enclosures

cc: Uintah County Assessor (via e-mail)

Bureau of Land Management, Vernal District Office

Operator:	Summit Operatin	g LLC	
Well Name & Number	Federal H 34-30		
API Number:	43-047-38883 UTU-66421		
Location: SW SE	Sec30_	T. 10 South	R. 24 East

#### **Conditions of Approval**

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

Notify the Division with 24 hours of spudding the well.

• Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

 Contact Dustin Doucet at (801) 538-5281 office (801) 733-0983 home

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

- 4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
- 5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

#### PARADIGM CONSULTING, INC PO BOX 790203 VERNAL, UT 84079 435-789-4162

June 6, 2007

BLM, Vernal Field Office 170 S 800 E Vernal, UT 84078 43-047-38883

RE: Summit Operating UTU-77658 Federal H 34-30

Dear Mr. Cutler,

As per our conversation today, please find the attached corrected page three of the surface use plan for the subject location.

If you have any further questions or concerns, please feel free to call me at the above address or via e-mail at gs\_paradigm@yahoo.com.

Best regards,

Ginger Stringham

Cc: Summit Operating

State Division of Oil, Gas and Mining

JUN 0 6 2007

DIV. OF OIL, GAS & MINING

location site and access road shall be borrow material accumulated during construction of the location site and access road. Additional road gravel facilitate closing and reclamation of the reserve pit. A pumping system would be used for evaporation.

The gas meter run will be located within 500' of the wellhead. The gas line will be buried or anchored down from the wellhead to the meter. Meter runs will be housed and/or fenced.

The gas meter will be calibrated and the tank strapped in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The authorized officer will be provided with a date and time for the initial meter calibration and all future meterproving schedules. A copy of the meter calibration report will be submitted to the BLM's Vernal District office and State of Utah, Division of Oil, Gas, and Mining. All measurement facilities will conform to API (American Petroleum Institute) and AGA (American Gas Association) standards for gas and liquid hydrocarbon measurement.

#### 5. Location and type of water supply

Water for drilling and cementing will come from a municipal source at 355 South 1000 East Vernal, UT 84078. Dalbo/A-1Tank.

#### 6. Source of construction materials

All construction material for this location site and access road shall be borrow material accumulated during construction of the location site and access road. Additional road gravel

or pit lining material will be obtained from private resources.

#### 7. Methods for handling waste disposal

#### A) Pit construction and liners:

The reserve pit will be approximately **10 ft**. deep and most of the depth shall be below the surface of the existing ground Please see the attached plat for details.

The reserve pit will be lined.

The reserve pit will be used to store water for drilling. A semi-closed system will be used to drill the well. All fresh water for drilling will come from a frac tank placed on location and from the rig tank. The pit will be used to hold non-flammable materials such as cuttings, salt, drilling fluids, chemicals, produced fluids, etc.

#### B) Produced fluids:

Produced water will be confined to the reserve pit or, if deemed necessary, a storage tank for a period not to exceed 90 days after initial production. During the 90-day period an application for approval for permanent disposal method and location will be submitted to the authorized officer. Evaporation may be used instead of trucking to facilitate closing and reclamation of the reserve pit. A pumping system would be used for evaporation.

Form 3160-3 (February 2005)

#### UNITED STATES DEPARTMENT OF THE INTE BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0137 Expires March 31, 2007

6. If Indian, Allotee or Tribe Name

Lease Serial No. UTU-66421

APPLICATION	FOR	PERMIT	TO	DRILL	ORPHEEN BEROOT

			141.	
la. Type of work:  DRILL  REENTE	BLM VERNAL, U	TAH	NA.	eement, Name and No.
lb. Type of Well: Oil Well Gas Well Other	Single Zone  Multi		8. Lease Name and Federal H 34-	
2. Name of Operator Summit Operating LLC			9. API Well No. 43-041	-38883
3a. Address P.O. Box 683909 Park City UT, 84068	3b. Phone No. (include area code) 435-940-9001		10. Field and Pool, or Natural Butte	Exploratory
4. Location of Well (Report location clearly and in accordance with and At surface 602' FSL & 2088' FEL SW 1/4 S/	· · · · · · · · · · · · · · · · · · ·		11. Sec., T. R. M. or B Sec. 30, T10S.	·
At proposed prod. zone same as above  14. Distance in miles and direction from nearest town or post office*  Approximately 65.8 miles in a southeasterly direction from	m Vernal UT		12. County or Parish Uintah	13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of acres in lease 2,240 Acres	40 Ac		well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.  1,600'	19. Proposed Depth <b>7,100'</b>		BIA Bond No. on file 000014	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5,312 GR	22. Approximate date work will sta 12/01/2006	rt*	23. Estimated duration 30 Days	on
	24. Attachments			
The following, completed in accordance with the requirements of Onsho	re Oil and Gas Order No.1, must be a	ttached to th	is form:	
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office).</li> </ol>	Lands, the Item 20 above).  Solution 20 above).  Item 20 above).	cation	·	existing bond on file (see
25. Signature	Name (Printed/Typed) Ginger Stringham			Date <b>02/16/2007</b>
Title Agent				
Approved by (Signature)	Name (Printed/Typed)			Date

**VERNAL FIELD OFFICE** ands & Mineral Resources Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Office

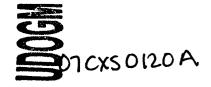
\*(Instructions on page 2)

int Field Manager

**NOTICE OF APPROVAL** 

**RECEIVED** JUL 2 3 2007

DIV. OF OIL, GAS & MINING





# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE

VERNAL FIELD OFFICE VERNAL, UT 84078

(435) 781-4400



#### CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:

**Summit Operating LLC** 

Location:

SWSE, Sec. 30, T10S, R24E

Well No:

Federal H 34-30 43-047-38883 Lease No:

UTU-66421

Agreement:

N/A

Title Petroleum Engineer: Petroleum Engineer: Petroleum Engineer: Petroleum Engineer: Supervisory Petroleum Technician: NRS/Enviro Scientist: NRS/Enviro Scientist:	Name Matt Baker Michael Lee James Ashley Ryan Angus Jamie Sparger Paul Buhler Karl Wright	Office Phone Number (435) 781-4490 (435) 781-4432 (435) 781-4470 (435) 781-4430 (435) 781-4502 (435) 781-4475 (435) 781-4484	Cell Phone Number (435) 828-4470 (435) 828-7875 (435) 828-7874 (435) 828-7368 (435) 828-3913 (435) 828-4029
Petroleum Engineer:	Matt Baker		
Petroleum Engineer:			
Petroleum Engineer:	James Ashley	(435) 781-4470	
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
NRS/Enviro Scientist:	Paul Buhler	(435) 781-4475	(435) 828-4029
NRS/Enviro Scientist:	Karl Wright	(435) 781-4484	
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	
NRS/Enviro Scientist:	Vacant	(435) 781-4476	(435) 828-7381
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Jannice Cutler	(435) 781-3400	
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	
NRS/Enviro Scientist:	Darren Williams	(435) 781 <del>-4</del> 447	
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	
		Fax: (435) 781-4410	

### A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

#### **NOTIFICATION REQUIREMENTS**

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

Page 2 of 8 Well: Federal H 34-30

7/10/2007

### SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

#### Surface COAs:

• If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.

 If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

Surface Conditions of Approval or monitoring are listed in the Surface Use Plan of the APD's.

#### Other COA's:

- The soils in the proposed project area have been identified in the lease notice as having critical to severe soil erosion conditions. In order to minimize watershed damage during muddy and wet periods, the authorized officer of the BLM may prohibit surface disturbing activities.
- Submit Sundry Notice Form 3160-5 for pipeline requests and necessary right-of-ways to Authorized Officer of the Vernal BLM if well are productive. A Sundry Notice will detail any changes in pipeline proposal from the Proposed Action.
- Prior to water disposal, submit Sundry Notice Form 3160-5 specifying Approved Water Disposal facilities to be used in conjunction with Proposed Action.
- During operations, if any vertebrate paleontological resources are discovered, all operations
  affecting such sites shall be immediately suspended, and all discoveries shall be left intact until
  authorized to proceed by the Authorized Officer. The Authorized Officer of the Vernal BLM
  office shall be notified within 48 hrs of the discovery and a decision as to the preferred
  alternative/course of action will be rendered.
- The operator will control noxious weeds along access road use authorizations, pipeline route authorizations, well sites, or other applicable facilities by spraying or mechanical removal. A list of noxious weeds may be obtained from the BLM weeds specialist or the appropriate County Extension Office. On BLM administered land, it is required that a Pesticide Use Proposal be submitted and approved prior to the application of herbicides, pesticides or possibly hazardous chemicals.
- All applicable local, state, and/or federal laws, regulations, and/or statutes will be complied with.
- All traffic related to this action will be restricted to approved routes. Cross-country vehicle travel will not be allowed.
- No vehicle travel, construction or routine maintenance activities shall be performed during
  periods when the soil is too wet to adequately support vehicles and/or construction equipment.
  If such equipment creates ruts in excess of four inches deep, the soil shall be deemed too wet
  to adequately support construction equipment.

Page 3 of 8 Well: Federal H 34-30 7/10/2007

- The access road will be crowned and ditched. Flat-bladed roads are not allowed.
- If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches or etc. will be needed to control the erosion.
- Low-water crossings will be appropriately constructed to avoid sedimentation of drainage ways and other water resources.
- Pipelines will be buried at all major drainage crossings.
- Prevent fill and stock piles from entering drainages.
- The reserve pit will be lined with a 10 ml or greater liner and felt prior to spudding.
- The liner is to be cut 5 feet below ground surface or at the level of the cuttings, whichever is deeper, and the excess liner material is to be disposed of at an authorized disposal site.
- When the reserve pit contains fluids or toxic substances, the operator must ensure animals do not ingest or become entrapped in pit fluids.
- If Uinta Basin hookless cactus or other special status plants are found, construction will cease and the AO will be notified to determine the appropriate mitigation.
- The authorized officer may prohibit surface disturbing activities during severe winter conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- The authorized officer may prohibit surface disturbing activities during wet or muddy conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- All permanent (on-site six months or longer), above ground structures constructed or installed, including pumping units, any subsequent approved equipment/facilities will be painted a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the five state Rocky Mountain Inter-Agency Committee. All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The requested color is Olive Black as determined during the on-site inspection.

#### Interim seed mix:

Bottlebrush Squirreltail grass	Elymus elymoides	4 lbs/acre
Hy-crest Crested Wheatgrass	Agropyron cristatum	4 lbs/acre
Wyoming Big Sagebrush	Artemisia tridentata var. Wyomingensis	1 lbs/acre
Shadscale saltbush	Atriplex confertifolia	3 lbs/acre

#### Final reclamation seed mix:

Bottlebrush Squirreltail grass	Elymus elymoides	4 lbs/acre
Hy-crest Crested Wheatgrass		4 lbs/acre
	Artemisia tridentata var. Wyomingensis	1 lbs/acre
	Atriplex confertifolia	3 lbs/acre

Page 4 of 8 Well: Federal H 34-30

7/10/2007

All pounds are in pure live seed.

- All seed and mulch will be certified weed free.
- Drill seeding is the preferred method.
- Rates are set for drill seeding; double the rate if broadcasting.
- If broadcasting seed: The seed will be walked into the soil with a dozer immediately after the seeding is completed, or covered by soil using a drag chain.
- Reseeding may be required if initial seeding is not successful.
- The operator will be responsible for treatment and control of invasive and noxious weeds. A
  Pesticide Use Plan (PUP) will be submitted and approved prior to the application of herbicides
  or other potentially hazardous chemicals on Federal Lands.
- Upon well completion, the well pad location up to the deadmen, will be recontoured to the approximate natural contours and the stockpiled topsoil will be spread evenly over the reclaimed area and then re-seeded using the above mentioned interim seed mix.
- Once the location is plugged and abandoned, it shall be recontoured to the natural topography, topsoil shall be respread, and the entire location shall be seeded with the final reclamation seed mix. Seed application will follow all guidelines in the interim seed mix bullet statement above. If reclamation seeding should take place using the broadcast method, the seed at a minimum will be walked into the soil with a dozer, immediately after the seeding is completed, or covered by soil using a drag chain.
- All boulders with a length or diameter greater than 3 feet, that are found showing at the surface, will be stockpiled for use during final reclamation.
- Notify the Authorized Officer 48 hours prior to surface disturbing activities.

Page 5 of 8 Well: Federal H 34-30

7/10/2007

#### **DOWNHOLE COAs:**

#### SITE SPECIFIC DOWNHOLE COAs:

 The top of the production casing cement shall extend a minimum of 200 feet above the intermediate casing shoe.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

#### DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times.
   Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the
  daily drilling report. Components shall be operated and tested as required by Onshore Oil &
  Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be
  performed by a test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be
  reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water
  is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM
  Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

Page 6 of 8 Well: Federal H 34-30 7/10/2007

 A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.

- Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a
  weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is
  completed.
- A cement bond log (CBL) will be run from the production casing shoe to the <u>top of cement</u> and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

Page 7 of 8 Well: Federal H 34-30

7/10/2007

#### **OPERATING REQUIREMENT REMINDERS:**

 All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
  notified when it is placed in a producing status. Such notification will be by written
  communication and must be received in this office by not later than the fifth business day
  following the date on which the well is placed on production. The notification shall provide, as a
  minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - o The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - o The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - o Unit agreement and/or participating area name and number, if applicable.
  - o Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or

Page 8 of 8 Well: Federal H 34-30

7/10/2007

data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field
  Office Petroleum Engineers will be provided with a date and time for the initial meter calibration
  and all future meter proving schedules. A copy of the meter calibration reports shall be
  submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API
  standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All
  measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted
  to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs
  first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be
  adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively
  sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
  equipment shall be removed from a well to be placed in a suspended status without prior
  approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30
  days, prior approval of the BLM Vernal Field Office shall be obtained and notification given
  before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office
  Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in
  order that a representative may witness plugging operations. If a well is suspended or
  abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent
  Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual
  plugging of the well bore, showing location of plugs, amount of cement in each, and amount of
  casing left in hole, and the current status of the surface restoration.

# CONFIDENTIAL

FORM 9

#### **STATE OF UTAH** DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

DIVISION OF OIL, GAS AND WINNING	UTU-66421	A AND GENTLE HOMBEN.
SUNDRY NOTICES AND REPORTS ON	WELLS 6. IF INDIAN, ALLOTTE	E OR TRIBE NAME:
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current botto drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for su	m-hole depth, reenter plugged wells, or to ch proposals.	ENT NAME:
1. TYPE OF WELL OIL WELL ☐ GAS WELL ☑ OTHER	8. WELL NAME and NU	
	Federal H 34-3	30
2. NAME OF OPERATOR: Summit Operating, LLC	9. API NUMBER: 4304738883	
3. ADDRESS OF OPERATOR:	PHONE NUMBER: 10. FIELD AND POOL, O	OR WILDCAT:
PO Box 683909 CITY Park City STATE UT ZIP 84068	3-3909 (435) 940-9001 Texacoma	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 602' FSL & 2088' FEL SW/4 SE/4	COUNTY: UINTA	4
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 30 10S 24E		ЛАН
11. CHECK APPROPRIATE BOXES TO INDICATE NA		DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
☐ NOTICE OF INTENT		CURRENT FORMATION
	RACTURE TREAT SIDETRACK TO	
	IEW CONSTRUCTION TEMPORARILY	ABANDON
CHANGE TO PREVIOUS PLANS	PERATOR CHANGE TUBING REPAIL	२
	LUG AND ABANDON VENT OR FLAR	E
SUBSEQUENT REPORT CHANGE WELL NAME	LUG BACK WATER DISPOS	SAL
	RODUCTION (START/RESUME) WATER SHUT-	OFF
	· ·	ll spudded, drilling
CONVERT WELL TYPE	ECOMPLETE - DIFFERENT FORMATION TO C	ommence
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent	details including dates, depths, volumes, etc.	
Well was spudded on 08/11/2007, drilling commenced thereafter		
NAME (PLE SE PRINT)	TITLE Operations	
SIGNATURE	DATE Det 3 07	
This space for State use only)	RECEIVED	

OCT 0 4 2007

## STATE OF UTAH

RECEIVED OCT 0 4 2007

**DEPARTMENT OF NATURAL RESOURCES** DIVISION OF OIL, GAS AND MINING

FNTITY	<b>ACTION</b>	FORM

DIV. OF OIL, GAS & MINING

Operator:

Summit Operating, LLC

Operator Account Number: N 2315

Address:

PO Box 683909

city Park City

state UT

zip 84068-3909

Phone Number: \_(435) 940-9001

Well 1

API Number	Well	Name	QQ Sec Twp			Rng County			
4304738883	Federal H 34-30		738883 Federal H 34-30 SWSE 3		30	108	24E	UINTAH	
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date			
Α	99999	16378	8	3/11/200	7	10/	16 101		

Comments:

Mell was spudded on 08/11/2007
MVRD per Well Completion Report CONFIDENTIAL

Well 2

API Number	Well I	lame	QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			ity Assignment	
Comments:							

#### Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number			Spud Date			/ Assignment ective Date
Comments:							·

#### **ACTION CODES:**

- A Establish new entity for new well (single well only)
- **B** Add new well to existing entity (group or unit well)
- C Re-assign well from one existing entity to another existing entity
- Re-assign well from one existing entity to a new entity
- E Other (Explain in 'comments' section)

1/	·	4.				
ĸ	ris	:TI	н	10	n	c
- 1 3				1	u	

Title

#### STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

# CONFIDENTIAL

	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-66421					
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:					
Do not use this form for proposals to drill drill horizontal	7. UNIT or CA AGREEMENT NAME:					
1. TYPE OF WELL OIL WELL	6. WELL NAME and NUMBER:					
2. NAME OF OPERATOR:	Federal H 34-30					
Summit Operating, LLC	4304738883					
3. ADDRESS OF OPERATOR: PO Box 683909	10. FIELD AND POOL, OR WLDCAT: Natural Buttes					
4. LOCATION OF WELL	Park City UT	84068-3909 (435) 940-9001	<u> </u>			
FOOTAGES AT SURFACE: 602' F	FSL & 2088' FEL		соинту: Uintah			
QTR/QTR, SECTION, TOWNSHIP, RA	STATE: UTAH					
11, CHECK APP	ROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPO	RT, OR OTHER DATA			
TYPE OF SUBMISSION		TYPE OF ACTION				
NOTICE OF INTENT	ACIDIZE	DEEPEN	REPERFORATE CURRENT FORMATION			
(Submit in Duplicate)	ALTER CASING	FRACTURE TREAT	SIDETRACK TO REPAIR WELL			
Approximate date work will start:	CASING REPAIR	NEW CONSTRUCTION	TEMPORARILY ABANDON			
	CHANGE TO PREVIOUS PLANS	OPERATOR CHANGE	TUBING REPAIR			
	CHANGE TUBING	PLUG AND ABANDON	VENT OR FLARE			
SUBSEQUENT REPORT (Submit Original Form Only)	CHANGE WELL NAME	PLUG BACK	WATER DISPOSAL			
Date of work completion:	CHANGE WELL STATUS	PRODUCTION (START/RESUME)	WATER SHUT-OFF			
10/22/2007	COMMINGLE PRODUCING FORMATIONS	RECLAMATION OF WELL SITE	✓ other: Drill out temp plugs			
10/22/2001	CONVERT WELL TYPE	RECOMPLETE - DIFFERENT FORMATION				
12. DESCRIBE PROPOSED OR C	OMPLETED OPERATIONS. Clearly show all	pertinent details including dates, depths, volum	nes, etc.			
10-22-07: Drilled out 3 to at 5989-6009', 6134-44',	mporary composite bridge plugs 6171-78', 6186-88', 6196-98' and	s at 5965', 6075' & 6160' opening เ ป 6200-02'. Flowed back frac load	up plugged back Mesa Verde perfs I to tank.			
10-24-07: Put well down 5916-30'.	gas sales line from the above pe	erfs along with the previously oper	n Mesa Verde perfs 5898-5913' &			
10-27-07: 24-hour flow te	est: FCP=800, FTP=600, 840 M	CFPD, 82 BLWPD & 5 BCPD on 2	24/64" choke.			
Note: Current PBTD is C	IBP @ 6390'.					
NAME (PLEASE PRINT) Greg Sch	midt	TITLE Agent for Summi	it Operating, LLC			
SIGNATURE	Situal	DATE 10/30/2007				
			PICACIVALITY			
(This space for State use only)			RECEIVED			

NOV 0 1 2007

FORM 9

# STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL GAS AND MINING

DIVISION OF OIL, GAS AND MINING	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-66421				
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:				
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	7. UNIT or CA AGREEMENT NAME:				
1. TYPE OF WELL OIL WELL GAS WELL OTHER	8. WELL NAME and NUMBER: FEDERAL H 34-30				
2. NAME OF OPERATOR: SUMMIT OPERATING, LLC	9. API NUMBER: 4304738883				
3. ADDRESS OF OPERATOR: PO BOX 683909 CITY PARK CITY STATE UT ZIP 84068 PHONE NUMBER: (435) 940-9001	10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES				
4. LOCATION OF WELL FOOTAGES AT SURFACE: 602' FSL, 2088' FEL	COUNTY: UINTAH				
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 30 10S 24E	STATE: UTAH				
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA				
TYPE OF SUBMISSION TYPE OF ACTION					
NOTICE OF INTENT	REPERFORATE CURRENT FORMATION				
(Submit in Duplicate) ALTER CASING FRACTURE TREAT	SIDETRACK TO REPAIR WELL				
Approximate date work will start: CASING REPAIR NEW CONSTRUCTION	TEMPORARILY ABANDON				
CHANGE TO PREVIOUS PLANS OPERATOR CHANGE	TUBING REPAIR				
CHANGE TUBING PLUG AND ABANDON	VENT OR FLARE				
SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK (Submit Original Form Only)	WATER DISPOSAL				
Date of work completion:  CHANGE WELL STATUS  PRODUCTION (START/RESUME)	WATER SHUT-OFF				
COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE	OTHER:				
CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMATION					
DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volume Please be advised that the above listed well was placed into production on 10/24/2007.					
NAME (PLEASE PRINT) DIVID L'HYWHITE  SIGNATURE  DATE 10-25-07					

RECEIVED

OCT 2 6 2007

(This space for State use only)

## STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

# CONFIDENTIAL

AMENDED REPORT FORM 8 (highlight changes)

		DIV	VISION	OF OIL, O	SAS AND M	IINING	3 <b>U</b> I	UNII	DEMINE	5. LE	ASE DESIGN	ATION AND	SERIA -6642			
WELL	COMP	LETIC	N OF	RECOM	IPLETION	N REI	PORT	AND	LOG	6. IF	INDIAN, AL	LOTEE OR T	RIBE N	AME		
1a. TYPE OF WELL:		OIL WELL		WELL GAS X	DRY [	]	OTHE	R		_ 7. UN	T or CA AGE	REEMENT NA	ME			
b. TYPE OF WORK:										8 WE	8. WELL NAME and NUMBER:					
NEW -	LODIZ	_	NEED.		n	FF. <b>[</b>	_			" "			.1 TT 1	14 20		
WEYL X	HORIZ. LATS.	Ш	EN DEEP-	L ENTR	Y RE	SVR.		OTHER		Federal H 34-30						
2. NAME OF OPERAT		ummit	Opera	ting, LLC						9. AF	NUMBER:	43-04	7-38	883		
3. ADDRESS OF OPE	RATOR:							PHONE	NUMBER:	10 FIELD AND POOL, OR WILDCAT						
PO Box 6839			k City		UT	84068	-3909	1-435	-940-9001	Natural Buttes						
4. LOCATION OF WE	ELL(FOOTAGES	5)								11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:						
AT SURFACE: AT TOP PRODUCIN				(SW/4SE/4	•					s	W/4 SE/	4 Sec 3	0 T1	0S-R24E		
AT TOTAL DEPTH:		is abov		Same as at	ove					12. COUNTY 13. STATE Uintah UTAH						
14. DATE SPUDDED:		DATE T.D.		<u> </u>		16. D	ATE COM	PLETED:				ONS (DF, RK				
08/11/2007		08/26/2		ABANDONE	. П			ODUCE X	9-21-0			L, 5327		,-		
18. TOTAL DEPTH:	мо <b>7211</b>		19. Pl	UG BACK T.D.:	MD 7190				OMPLETIONS, HOW M	4440/2 *	TH BRIDGE	мр 596	5 Cor	nposite		
	TVD same				TVD <b>same</b>				4		PLUG SET:	TVD san		<u> </u>		
22. TYPE ELECTRIC	AND OTHER M	ECHANICA	I LOGS RI	IN (Submit conv.)	of each)			23.		Nd	ا	<u>"</u>				
Open Hole: 6	R-SP-DIL-	-Calibe				L,CCI	_		LL CORED?	NO.	_	_ `		analysis)		
Cased Hole:	GR CBL C	CL.	SI		ACTR.			WAS DST	NAL SURVEY?	NO		_ `	ubmit re <sub>l</sub> ubmit co	•		
24. CASING AND LII	NER RECORD (I	Report all s	strings set		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	VV										
HOLE SIZE	SIZE/GRADI	E WE	IGHT (#/ft.	) TOP (MD	воттом (	MD)	O) STAGE CEMENTE		CEMENT TYPE & NO. OF SACKS	SLUF VOLUM		CEMENT TOP * *		AMOUNT PULLED		
12 1/4	9 5/8 J5	5	36	surf	2032	:	none		710 Lt/prem	226	5.4	surf		none		
7 7/8	4 ½ N80	11.6		surf	7211	7211		ne	190sx Hi-fill	360	.3 43	430' measured		none		
									tail in w/ 1050							
						sx Prem 50/		sx Prem 50/50								
5. TUBING RECOR	D															
HOLE SIZE	DEPTH S		PACKER	SET (MD)	SIZE	DEF	TH SET (	MD) PACKE	R SET (MD)	SIZE	DEF	TH SET (MC	) F	PACKER SET (MD)		
2 3/8	58	55	<u></u>													
26. PRODUCING INTE	RVALS							27. PERF	ORATION RECORD							
FORMATIO	N NAME	TOP (	MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)		INTERVAL (Top/Bot - MD)		SIZE	NO. HOLES			RATION STATUS		
A) Mesa Verde (open)		589	98	5930	5898	5930		5898-5913 & 5916-5930		.40		Open 1X	Squeezed Squeezed			
B) Mesa Verde (temp PB)		598	39	6009	5989	6009		5989-6009		.40	42	Temp PB und		der comp plug		
) Mesa Verde (temp PB)		613	34	6144	6134	6144		6134-6144		.40	22	Temp P	B und	der comp plug		
o) Mesa Verde (temp PB) 6171 6202 6171 6202 6200-6202						.40	.40 34 Temp PB under comp									
8. ACID, FRACTUR	E, TREATMENT	r, CEMENT	SQUEEZE	E, ETC.							RE	CEIV	-	<del></del>		
DEPTH	INTERVAL				-				TYPE OF MATERIAL							
Frac'd w/ 54866 gal x-linked gelled wtr & 145,000 # of 20/40 sand									SE	P 2 8 2	007					
5989-6009		1							of 20/40 sand		W. 05 -					
6134-6144									f 20/40 sand	L	nv. UF O	L, GAS &	* .t;	Mg.		
6171-6202		F	rac'd w	// 18509 gal	x-linked ge	lled wt	tr & 45,	026 # o	f 20/40 sand	— —		1.5	## 1 1	FA-T-110		
29. ENCLOSED AT	TACHMENTS:											30. W	ELL S	TATUS:		
X.	ICAL/MECHANIC		AND CEL	ENT VEDICICATIO	<u> </u>	SEOLOGIC	C REPORT	· 🗀	OTHER:	RECTION	AL SURVEY		P			

ON

31. INITIAL PRO	ODUCTION			II	ITERVAL A (As sh	own in item #26)				
09/21/2007		TEST DATE: 09/22/2007	7	HOURS TESTED:	7	TEST PRODUCTIO RATES: →	OIL - BBL:	GAS - MCF: 214	WATER - BBL: <b>42</b>	PROD. METHOD: flowing
20/64	TBG. PRESS.	CSG. PRESS. <b>660</b>	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION PATES: -+	ON OIL - BBL:	GAS - MCF: 733	WATER - BBL: 144	INTERVAL STATUS: Flowing back frac wate and produced gas
				II.	TERVAL B (As sh	own in Item #26)			-	
DATE FIRST PRO	ODUCED:	TEST DATE:		HOURS TESTE	D:	TEST PRODUCTION RATES:	OIL - BBL:	GAS - MCF:	WATER - B	BL: PROD, METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	/ BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES:	ON OIL - BBL:	GAS - MCF:	WATER - B	BL: INTERVAL STATUS
	<u></u>		1	II.	ITERVAL C (As sh	own in item #26)		1		
DATE FIRST PRO	ODUCED:	TEST DATE:		HOURS TESTE	D:	TEST PRODUCTION RATES: -+	ON OIL - BBL:	GAS - MCF:	WATER - B	BL: PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION PATES: -+	OIL - BBL:	GAS MCF:	WATER - B	BL: INTERVAL STATUS
	•			IN	TERVAL D (As sh	own in item #26)		<u>l</u>		<u> </u>
DATE FIRST PRO	ODUCED:	TEST DATE:		HOURS TESTE	D:	TEST PRODUCTION RATES: -+	OIL - BBL:	GAS - MCF:	WATER - BI	BL: PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION	ON OIL - BBL:	GAS – MCF:	WATER - BI	BL: INTERVAL STATUS
Show all importar	nt zones of porosi	NES (Include Aqui	reof: Cored interva	als and all drill-stem to	ests, including depth	n interval	34. FORMATION	(Log) MARKERS:		
Formatio		Тор	Bottom		iptions, Contents,	etc.			Top Meas. Depth	
Green R	iver	Surf	3024	Lt. Gray to gre					surf	
Wasato	ch	3024		sandstones w	limestone, c	, cream to med		3024		
Mesa Ve	erde	4712		Sandstones in	terbedded wit	own, hard, dense broadles and broadles and black coal intervals			4712	
Castlegate 6956		6956	7210	Sinstones, w/ Dk gray – dark white – It. gray	brown shales	s, sandstone	Ca	estlegate		6956
					minor coals				1	

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

Additional perfs and plugs: CIBP at 7100', plugging back tight Castlegate perfs at 7134-36 & 7141-45' w/ 35. ADDITIONAL REMARKS (Include plugging procedure) 4 spf (32 holes). CIBP at 6390', plugging back tight Lower Mesa Verde perfs at 6501-04 (misfire), 6507-11 (misfire), 6512-17, 6522-25, 6446-48 and 6453-55' w/ 3 spf (72 holes). Temporary composite plugs are currently at 5965, 6075, & 6160'. We are continuing to drill and clean out the remaining 3 composite plugs to open up the other 3 sets of Mesa Verde perfs shown under section 26 above. We are currently flowing just the top set of MV perfs.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

NAME (PLEASE PRINT)	David Lillywhite
la.	5/-711/1
SIGNATURE	MANGUME
This report must be submitted	within 30 days of

Summit Operating, LLC

09/28/2007 DATE

- completing or plugging a new yell
- drilling horizontal laterals from an existing well bore
- · recompleting to a different producing formation
- · reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- · drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining

1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

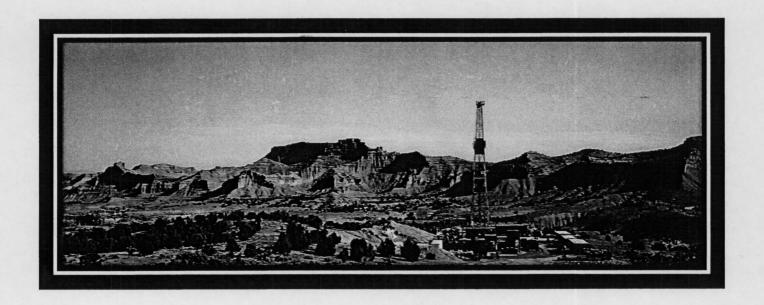
Phone: 801-538-5340

Fax: 801-359-3940 CONFIDENTIAL

Federal H39-30 43-047-38883 30 10s 29e

# **SUMMIT OPERATING LLC**

# **GEOLOGY REPORT**



FEDERAL H 34-30 SW SE Sec. 30, T10S, R24E 602' FSL & 2,088' FEL UINTAH CO., UTAH NATURAL BUTTES



SEP 2 8 2007
DIV. OF OIL, GAS & MINING



#### Steamboat Energy Consultants PO BOX 881570 Steamboat Springs, Colorado 80488 Office (970) 870 9964

# **GEOLOGY REPORT**

# **Summit Operating LLC**

Federal H 34-30 602' FSL & 2,088' FEL SW SE Sec. 30, T10S, R24E Uintah County, Utah

# **TABLE OF CONTENTS**

# **GEOLOGICAL REPORT**

# Summit Operating LLC Federal H 34-30

<u>RESUME</u>	<u>1</u>
FORMATION TOPS	<u>2</u>
SUMMARY	<u>.</u> <u>3</u>
DRILLING CHRONOLOGY	<u>6</u>
PENETRATION RATE/TIME CHART	<u></u>
DIRECTIONAL SURVEYS	<u>8</u>
DRILLING PARAMETERS	<u>8</u>
BIT RECORD	<u>9</u>
MUD RECORD	<u>10</u>
I ITHO LOGY	<u>11</u>

# Well Resume

Operator:

Summit Operating LLC

	Well Name	Federal H 34-30					
<u>8</u>	Location	SW SE Sec. 30, T10S, R24E					
MAT	County, State	Uintah County, Utah					
9 R	Spot	602' FSL & 2,088' FEL					
	Spud Date	August 21, 2007					
<b>NELL INFORMATION</b>	Total Death	Driller 7,210'	00	7,210'			
	Completion Date (TD)	August 25, 2007	Time:	5:00 PM			
	Hole Size	12 1/4" to 2,075'	7 7/8" to TD				
HOLE	Casing	Surface 9 5 <del>/8"</del> , 36#, set @ 2,034'	Production 4 1/2", 16.01,	set @ TD'			
¥	Cement	170 sks 16% Gel-3% salt-10# Gilsonate-3# GR, 220 sks 2% CaCl, 340 sks 4% CaCl					
<u> </u>	GL	5,312'					
ELEV	KB	5,327'					
	Exploration Manager	Gregory N. Schmidt, Diamor	ndback Oil Part	ners, LLP			
PERSONNEL	Drilling Foreman	Daryl Knop					
ERS	Wellsite Geologist	Gregg Smith, Steamboat Energy Consultants					
L	Tool Pusher Tom Alber						
Г	Drilling Company	True Drilling					
	Rig #	22					
	Mud Company	Mustang Drilling Fluids	<del></del>				
S	Mud Type	Water Chem-Gel		Mud Up @	3,967'		
Ę	Mud Engineer	Dan Kastel					
CONTRACTORS	Mud Logging Company	None					
8	Petrophysical Logging Company	Halliburton					
	Logging Engineer:						
	Log Suite	HRI/SD/DSN, TD to Sfc Csg.					
	Drill Stem Test Company	None					
Г	Drilling Days	5					
_	Rotating Hours	86.00					
		Castlegate					
MAR	Bottom Hole Formation	Castlegate			<del></del>		
SUMMARY	Bottom Hole Formation Potentially productive zones	Green River, Wasatch, Mes	averde, Castle	gate			

# FORMATION LOG TOPS

Federal H 34-30

SW SE Sec. 30, T10S, R24E

reueral n 34-30		O11 02 000: 00j : 100j :
	KB	5,327'
Formation	LOG	TOPS
	DEPTH	DATUM
Green River Formation	Surface	-
Wasatch	3,014'	(+2,313)
Masaverde	4,712'	(+615)
Castlegate	6,956'	(-1,628')
TD	6,210'	

#### SUMMARY AND CONCLUSIONS

The Federal H 34-30 was drilled out from pre set surface casing on 8/21/07 and drilled to a total depth of 7210' on 8/25/07. The hole was drilled using a single PDF bit and mud motor requiring only 86 total rotating hours. Due to high formation gas encountered while drilling the well was shut in on three separate occasions at 3,933', 4,310', and 4,589' to control the well primarily by mixing barite to get the mud weight up. Ultimately, at the time total depth was achieved, the mud weight was increased to 10.9 pounds to control the formation gas and allow petrophysical logging and casing operations to be completed safely. A proximal lightning strike knocked out most of the rig's EDR electronics resulting in an absence of recorded drill time from 5,630' to 5,880', and a short stoppage in operations for repairs at 5,880'. There were no other significant operational delays or problems encountered.

Zones of interest in the Federal H 34-30 include the Green River, Mesaverde and Castlegate Formations. All Formations are potentially gas productive. A preliminary analysis of the e-logs and total formation gas recorded while drilling suggest the following zones to be potentially gas productive:

#### **PRIMARY ZONES OF INTEREST**

GREEN RIVER					
ZONE	Units GAS				
2,708' - 2,726'	6472				
2,790' - 2,802'	9383				

WASATCH						
Z	ONE	Units GAS				
3,350'	- 3,378'	9216				
3,848'	- 3,850'	9133				
4,250'	- 4,264'	8900				
4,487'	- 4,498'	5300				
4,526'	- 4,534'	7500				

MESAVERDE						
Z	ON	E	Units GAS			
5,505'	-	5,524'	7990			
5,923'	-	5,930'	7966			
5,988'	-	6,010'	8788			
6,030'	-	6,202'	8572			
6,340'	-	6,358'	6446			
6,445'	-	6,449'	3200			
6,453'	-	6,457'	8407			
6,510'	-	6,518'	7838			
6,604'	-	6,608'	8722			
6,715'	-	6,728'	5700			
6,818'	-	6,822'	4600			

#-# · ·						
CASTLEGATE						
ZONE	Units GAS					
7,024' - 7,040'	8000					
7,048' - 7,070'	2985					
7,132' - 7,150'	4300					

#### SUMMARY AND CONCLUSIONS

Many additional zones of interest are present throughout this well. The aforementioned zones are not intended as a total and conclusive list of all productive zones, merely as a starting point. A more exact determination of formation water resistivity may assist in narrowing this long list or, indeed, may greatly expand it.

Sample examination began at 2,034' in the Green River formation. General lithology was typical for the Green River consisting of interbedded white, friable sandstone, light green claystone and grey to brown shales with minor limestone. The potentially productive sands of this formation are described as follows; SANDSTONE; white to light gray, friable, fine to lower medium grained, subrounded to subangular, moderately well sorted, poorly consolidated with abundant fine black mineral inclusions, milky white, slightly calcareous matrix, trace poor intergranular porosity, trace spotty light brown stain, possible dead oil stain, no fluorescence, odor or cut.

The top of the Wasatch Formation was clearly discernable as the drilling mud changed color from grey to red brown, the result of an increased amount of distinct red brown shale. Potentially productive sandstones of the Wasatch are generally fine grained and occasionally silty, generally described as light gray to gray green, friable to firm, fine to lower medium grained, subrounded to subangular, moderately well sorted, well consolidated, commonly with medium grained black carbonaceous flakes, slightly calcareous matrix, no to poor visible porosity, no fluorescence stain odor or cut. The large amount of gas produced from these sands as they were drilled is incongruous with their silty and tight appearance and may be an indication of an over-pressured reservoir.

No clear indication of an exact unconformable Mesaverde Formation top was apparent. A gradual change in the shales of the Wasatch Fm. from red brown and green, subblocky, subwaxy shale to a dark grey and brown, somewhat silty shale is the best indication of the formation top. The sandstones of the Mesaverde were not very distinctive compared to those of the Wasatch. Described as: SANDSTONE; light gray to gray, firm, fine grained to very fine grained, subangular, well sorted and consolidated with abundant black carbonaceous stringers and partings, no to poor visible porosity, no fluorescence stain odor or cut. As with the Wasatch the Mesaverde sandstones generally appear tighter than would be expected considering the large amount of produced gas while drilling. The potentially productive zone from 6.030' to 6,202' is characterized by abundant coal. These coals are thin and may act as a source of gas to charge up any of the subjacent thin sandstones.

Two well developed sandstone zones were present in the Castlegate member of the Mesaverde Formation:

- 1) 7020 7030 SANDSTONE; brown to light gray, occasionally white, fine to lower fine grained to silty, subangular to subrounded, dark brown to black mineral inclusions, well consolidated, moderately well to poorly sorted, calcareous, abundant black SHALE stringers and inclusions, no visible porosity, no fluorescence stain odor or cut.
- 2) 7050 7070 SANDSTONE; white to light gray, friable to firm, fine to lower medium grained, subangular to subrounded, moderately well sorted and consolidated, fine black mineral inclusion, silica

# **SUMMARY AND CONCLUSIONS**

cement, occasionally with black shale stringers, occasionally with poor to fair intergranular porosity, no fluorescence stain odor or cut

An additional promising zone was drilled at 7,132' and 7,150'. Although less developed on elogs than the upper Castlegate sandstones the zone appeared to be somewhat fractured as it was drilled and produced a sizeable gas increase of 4000 units even though the mud weight at the time was 10.8+.

After evaluation of E-logs four and one half inch casing was set at TD to further evaluate all zones

# DAILY DRILLING CHRONOLOGY

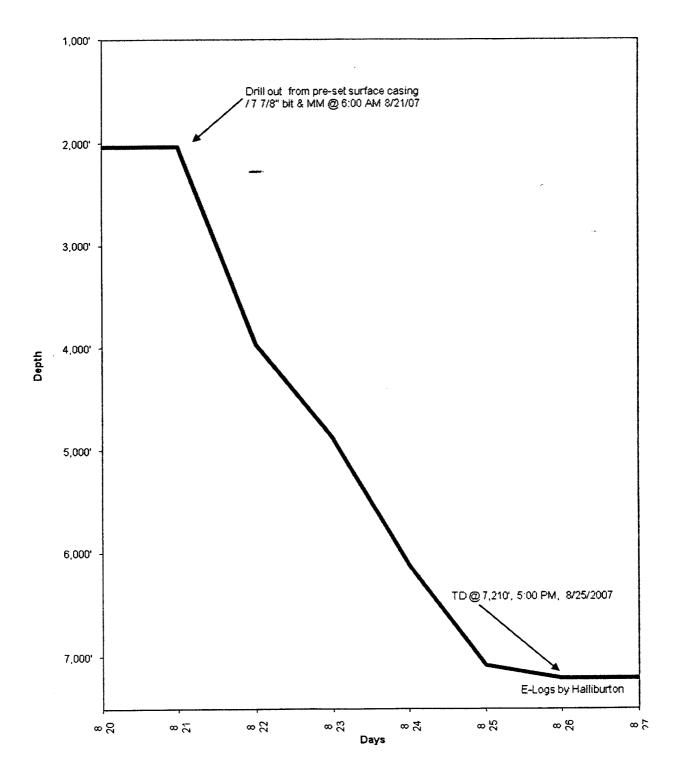
# Summit Operating LLC

# Federal H 34-30

Day	DATE (2007)	7:00 AM DEPTH (MDT)	Footage Previous 24 Hrs.	Activity
1	8 20	2,034'	0'	Nipple Up, test BOP, pick up BHA, drill cement and shoe, drill out 6:00 AM.
2	8 21	2,034'	2,034'	Drilling, repair swivle, shut well in @ 3367', circulate gas through gas buster.
3	8 22	3,967'	1,933'	Repair swivel, mix mud and kill gas flow, drilling, shut well in @ 4310', circulate out gas, weight up mud with barite, drilling, shut well in @ 4589', circulate gas flow, drilling.
4	8 23	4,867'	900'	Drilling, rig struck by lightning - knocked out EDR, wait on Pason, repair damaged electronics, drilling.
5	8 24	6,113'	1,246'	Drilling,
6	8 25	7,084'	971'	Drilling, TD @ 5:00 PM, circulate bottoms up, short trip to shoe, circulate, strap out for E-Logs.
7	8 26	7,210'	126'	Run E-Logs, trip in to condition hole for production casing.
8	8 27	7,210'	0'	Cement casing.

# PENETRATION RATE/TIME CHART

# FEDERALH 34-30



# DRILLING PARAMETERS - DIRECTIONAL SURVEYS

Operator: Summit Operating LLC

Well Name:

Federal H 34-30

	DRILLING PARAMETERS						
DEPTH	ROTARY TABLE SPEED	WT. ON BIT (1000 lbs)	PUMP PRESSURE	STROKES PER MINUTE			
2,034'	15	10	1050	120			
2,654'	55/90	15	1300	120			
3,933'	55/90	17	1250	120			
4,125'	55/90	15	_1330	118			
4,403'	53/90	15	1365	115			
4,085'	55/90	15	1650	120			
5,265'	55/90	15	1540	118			
5,788'	53/90	14	1357	118			
6,066'	55/90	18	1700	120			
6,440'	55/90	15	1868	120			
6,811'.	55/90	18	1671	120			
7,070'	55/90	22	1850	120			

DIRECTION	AL SURVEYS
DEPTH	INCLINATION
2,085'	1.5°
2,576'	2°
5,255'	1.5°

# BIT RECORD

OPERATOR:

Summit Operating LLC

WELL NAME: Federal H 34-30

F		Orill Pipe			4 1/2" 15	16.0	6#		PU	MPS	#1 #2		PZ-8	6X9 6X8			CON	TRAC	TOR		True RIG		lling 22	
NO	SIZE	MAKE	TYPE	JET	SERIAL	DEPTH OUT	FEET	HOURS		ACCUM DRLG		RPM		PUMP PRESS		M		MUD			DUI	LL C	OND	FORMATION REMARKS
		] ]				001				HRS	LBS		DEV	FILOO	1	2	WT	VIS	WL	Т	В	G	OTHER	
1	7 7/8	нтс	506Z	6x16	7111687	7210	5176	86	60	86.0	15	55/90	2	1500	120		10.8	45	8.4	1	NA	1		Castlegate
																				1			ĺ	
						<u> </u>		<del> </del>						<u></u>			H			<u> </u>	<b>_</b>			<del> </del>

86 Total Rotating Hours

#### DAILY DRILLING MUD REPORT

Operator:	Summi	t Operat	ting LLC							
Well Name:	Federa	I H 34-3	0							
Mud-up Depth:	3,967'	Mud	d Type:	Chem-	Gel			Mustar	ng Drillin	g Fluids
Report #	1	2	3	4	5	6	7	8		
Date, 2007	8 19	8 20	8 21	8 22	8 23	8 24	8 25	8 26		
Depth (ft) TVD	2,034'	2,034'	2,200'	4,235'	4,945'	6,215'	7,098'	7,210'		
Weight (lbs/gal.)	-			8.5+	9.3	9.4	10.6	10.9		
Funnel Viscosity (Sec/qt. API)				35	38	39	47	46		
Plastic Viscosity cp		-		7	11	14	23	22		
Yield Point (lb/100 ft².)				6	10	9	20	15		
Gel Strength 10 sec/10 min.				1/4	2/10	1/6	5/8	3/10		
pH (meter)				9.5	10.1	10.3	10.3	10.1		
Filtrate API (ml³/30 min)				15.0	9.8	8.4	8.0	7.0		
Cake Thickness 32nd				2	2	2	2	2		
Alkalinity, Mud (Pm)		TER.		0.9	1.3	1.4	1.3	1.2		
Alkalinity, Filtrate (Pf/Mf)		WATER		.35/.9	.6/1.5	8/20	.85/20	.65/20		
Chloride Content,(mg/L)				1,300	1,700	1,700	1,700	1,700		
Total Hardness, (mg/L)				tr	tr	tr	20	20		
Sand Content (% by Vol.)			:	tr	tr	0.25	0.5	0.5		
Retort Solids (% by Vol.)				/2.0	<i>[</i> 7.0	/8.0	/1.5	/6.0		
Retort Liquid (% Vol.) Oil/Wtr				98.0	93.0	92.0	85.0	84.0		
Methylene Blue Capacity				_	-	-	-	-		
ECD				8.650	9.550	9.625	11.100	11.275		
KCI				•	-	-	-	-		

Comments:

Begin drilling in the Green River Formation with 7 7/8" PDC Bit and Mud Motor. Lagged samples caught by rig personnel. Annotated formation tops are E-Log picks.

DEPTH 2000-2050	LITHOLOGY Predominately cement.
2050-2100	CLAYSTONE; light green to gray green, firm to soft, platy to subblocky, trace sandy in part. SANDSTONE; white to light gray, fine grained, smooth clusters, tight.
2100-2150	CLAYSTONE; light green, soft to firm, subblocky, occasionally platy, subwaxy. SANDSTONE; white to light green, hard, fine to lower fine grained, occasionally black to green mineral inclusion, tight throughout.
2150-2200	CLAYSTONE; light green, subblocky, predominantly subwaxy, commonly silty in part, trace SANDSTONE stringers. SANDSTONE; white, clean, firm to friable, fine grained, subrounded to subangular, well sorted and consolidated, scattered fine black mineral inclusion, trace poor intergranular porosity, no fluorescence stain odor or cut.
2200-2250	SANDSTONE; white to clear, predominantly smooth friable clusters, occasionally loose unconsolidated grains, subrounded to subangular, moderately well sorted, poor consolidated, no to poor visible porosity, no fluorescence stain odor or cut.
2250-2300	CLAYSTONE; dark gray to dark green, firm, blocky, occasionally sandy in part. SANDSTONE; continued as above, occasionally unconsolidated grains.
2300-2350	CLAYSTONE; green to light green to gray green, firm, subblocky, subwaxy, trace calcareous. LIMESTONE; brown to dark brown, firm, blocky, fine to microcrystalline, predominantly dense, trace fine angular inclusion, tight.
2350-2400	CLAYSTONE; green to gray to gray green, soft to firm, subblocky occasionally subwaxy, occasionally brown calcareous. LIMESTONE; brown to dh brown, hard to firm, blocky, fine to microcrystalline, grading to calcareous CLAYSTONE.
2400-2450	SANDSTONE; white to light gray, friable to firm, fine grained, subrounded, very fine green to black mineral inclusion, slightly calcareous matrix, well sorted and consolidated, occasionally fair intergranular porosity, trace spotty light brown stain, dull yellow fluorescence, no cut or odor.
2450-2500	SHALE; distinct change, dark brown to gray, soft, platy, subfissile. CLAYSTONE; gray green to light green, soft, subblocky, trace silty in part.
2500-2550	CLAYSTONE; gray green to green to gray to brown, soft, subblocky, slightly calcareous. SHALE; continued as above.
2550-2600	CLAYSTONE; green to gray to brown, subblocky, continued as above. SHALE; gray to dark gray, soft, platy, subfissile, traces black, fissile, carbonaceous.
2600-2650	SHALE; light gray green to gray, soft, subblocky. SHALE; dark gray to gray to brown, firm to soft, subfissile, trace black fissile carbonaceous.
2650-2700	SHALE and CLAYSTONE; continued as above, occasionally calcareous in part. occasionally silty. SANDSTONE; light gray to green. firm, very fine grained to silty, slightly calcareous, tight throughout.

DEPTH 2700-2750	LITHOLOGY SANDSTONE; white to light gray, friable, fine to lower medium grained, subrounded to
	subangular, moderately well sorted. poor consolidated, abundant fine black mineral inclusion, milky white, slightly calcareous matrix, slightly calcareous in part, trace poor intergranular porosity trace spotty light brown stain, NFOC possible dead oil, NFOC
2750-2800	SANDSTONE; continued as above, general decrease in grained size, slightly calcareous matrix, tight, no fluorescence stain odor or cut. CLAYSTONE; light green to gray, soft to firm, subblocky to platy.
2800-2850	CLAYSTONE; varicolored, green to gray to brown to firm to soft, subblocky, occasionally subwaxy. SANDSTONE; light gray to off white, very fine grained to silty, tight.
2850-2900	SHALE, gray to brown to dark gray, firm, platy, subfissile to fissile, trace black very carbonaceous stringers. LIMESTONE; dark brown, firm to hard, blocky, fine to microcrystalline, occasionally shale parting, trace fossil, (fusilinid), tight.
2900-2950	CLAYSTONE; light green to gray, firm to soft, blocky to subblocky subwaxy. SANDSTONE; gray to light gray, firm to hard, very fine to lower fine grained, subangular well consolidated, moderately well sorted, black mineral inclusion, tight throughout.
2950-3000	SHALE; dark gray to dark brown, firm, platy to subplaty, subfissile, slightly calcareous. LIMESTONE; brown to dark brown, firm, blocky fine crystalline, occasionally light brown, mottled texture, fossil, trace loose shell fragments, tight throughout
3000-3050	SANDSTONE; green to gray green, firm to very friable, fine to lower fine grained, occasionally silty, poor to moderately well sorted, subangular, black to green mineral inclusion, no visible porosity, moderately bright yellow fluorescence, NSOC. LIMESTONE; light brown, soft, predominantly mottled fossil in part, commonly with floating sand grains, tight throughout.
	WASATCH 3,014' (+2,313')
3050-3100	SHALE; moderately distinct change, red brown, soft, subblocky. SANDSTONE; continued as above, light green, fine grained to silty.
3100-3150	SANDSTONE; off white to light green, firm to friable, medium to lower medium grained, moderately well sorted, subrounded, slightly calcareous, trace poor intergranular porosity, spotty yellow fluorescence, NSOC
3150-3200	SHALE; red brown to gray, soft, subblocky, occasionally subwaxy, trace varigated. SANDSTONE; continued as above, tight.
3200-3250	SANDSTONE; red brown, very friable, lower medium to fine grained, poor sorted and consolidated, commonly with black to green to brown mineral inclusion, occasionally light red brown arkose matrix, slightly calcareous, no visible porosity no fluorescence stain odor or cut. SHALE; red brown continued as above.
3250-3300	SHALE; red brown to light green, soft to firm, subblocky, trace varigated silty in part.
3300-3350	SHALE; red brown to light gray to green, continued as above. CLAYSTONE, light green, soft, blocky occasionally subwaxy, trace varigated.

DEPTH 3350-3400	LITHOLOGY SANDSTONE; light gray to gray green, friable to firm, fine to lower medium grained, subrounded to subangular, moderately well sorted, well consolidated, commonly with medium black carbonaceous flakes, slightly calcareous matrix, no to poor visible porosity, no fluorescence stain odor or cut.
3400-3450	SHALE; red brown to brown to green, soft, platy to subblocky, occasionally fine gritty to silty, rarely waxy, varigated.
3450-3500	SANDSTONE; light gray to gray, friable to firm, fine grained, well sorted, well consolidated, abundant fine black to green occasionally red mineral inclusion, slightly calcareous, trace poor intrusive grained porosity no fluorescence stain odor or cut.
3500-3550	SHALE; red brown to green to gray, firm to soft, subblocky, occasionally silty to sandy in part. SANDSTONE; continued as-above, decrease grained size, tight.
3550-3600	SANDSTONE; light gray to gray green, firm, lower fine grained to silty, poor sorted, well consolidated, black mineral inclusion, tight. SHALE; red brown continued as above.
3600-3650	SANDSTONE; off white to gray to green, firm, fine to lower fine grained, subangular, well consolidated, poor sorted, black to red mineral inclusion, calcareous, occasionally red brown SHALE parting, calcareous, tight. SHALE; red brown to gray, soft, subblocky, occasionally silty in part.
3650-3700	SANDSTONE; light gray, firm to friable, fine grained to silty, subangular, well consolidated, very fine black mineral inclusion, tight, calcareous, commonly grading to siltstone.
3700-3750	SANDSTONE; gray to dirty gray, fine grained to silty, tight, continued as above
3750-3800	SHALE; light gray to gray green, soft, subblocky, occasionally subwaxy, commonly silty in part, slightly calcareous. SANDSTONE; light gray occasionally light brown, friable to firm, very fine grained to silty, argillaceous in part, calcareous, black mineral inclusion, tight throughout, grading to sandy SILTSTONE.
3800-3850	SHALE; SHALE; red brown to dark gray, soft to firm, blocky to platy, occasionally silty in part, rarely varigated, occasionally calcareous in part.
3850-3800	SANDSTONE; gray to light gray to dirty brown, friable, fine to lower fine grained to silty, poor sorted, subangular, black mineral inclusion, occasionally argillaceous in part, commonly calcareous, commonly grading to SILTSTONE, tight throughout. SHALE; gray to dark gray to brown, soft, blocky, commonly silty in part, trace varigated.
3900-3950	SAMPLE LOST WHEN WELL WAS SHUT IN
3950-4000	SHALE; red brown to gray to gray brown, firm, blocky, commonly subwaxy, rarely varigated. SANDSTONE; off white to light gray, friable, fine grained, subrounded to subangular, predominantly silica, trace calcareous, black to green mineral inclusion, trace poor intergranular porosity, no fluorescence stain odor or cut.
4000-4050	SHALE; red brown to gray to brown, continued as above. SANDSTONE; dirty gray, firm, fine grained to silty, argillaceous in part, slightly calcareous, tight throughout.
4050-4100	SHALE; red brown to brown to gray, soft to firm subblocky, occasionally silty in part, slightly

calcareous.

DEPTH	LITHOLOGY
4100-4150	SHALE; red brown to brown to gray, firm, blocky, occasionally black fissile, carbonaceous
4150-4200	SILTSTONE; light green to light gray, soft, very fine, trace varicolored SHALE parting, trace sandy in part, predominantly calcareous. SHALE; red brown continued as above, occasionally fine crystalline very calcareous.
4200-4250	SHALE; red brown to brown to light green, blocky, occasionally very splintery, waxy in part, rarely varigated. SANDSTONE; dirty brown to gray, firm to friable, fine grained to silty, poor sorted, varicolored mineral inclusion, occasionally calcareous, trace argillaceous, tight throughout.
4250-4300	SHALE; brown to dark brown to gray brown, soft to firm, blocky, subwaxy, occasionally very fine silty with black carbonaceous-flakes. SANDSTONE; dirty brown to gray, friable to firm, fine grained to silty continued as above, trace brown shale parting, tight throughout.
4300-4350	SANDSTONE; off white to light gray, fair,, fine to lower fine grained, subangular to sub rounded, moderately well sorted and consolidated, calcareous matrix, scattered black mineral inclusion, tight, no fluorescence stain odor or cut. SHALE; gray to green to red brown.
4350-4400	SILTSTONE; light brown to light green to gray, soft, very fine, calcareous, occasionally micro black mineral inclusion. SHALE; light green, soft, subblocky, subwaxy.
4400-4450	SHALE; light gray to green to brown, soft, blocky, occasionally platy, occasionally silty in part. SILTSTONE; continued as above, tight throughout.
4450-4500	SANDSTONE; off white to light brown, friable, very fine to lower medium grained, subrounded, poor sorted, with scattered medium grained quartz grains, black to brown mineral inclusion, predominantly silica with occasionally white calcareous matrix, tight to poor visible porosity, NSOC. LIMESTONE; brown to light brown, hard, blocky, microcrystalline, tight, trace only. SHALE; light green continued as above, trace with brown LIMESTONE partings, trace sandy in part.
4500-4550	SANDSTONE; continued as above, traces with scattered dark brown quartz grains, rarely with fair intergranular porosity, trace spotty dull yellow fluorescence, NSOC. LIMESTONE; brown to light brown, firm to hard, blocky, fine crystalline, occasionally assoc with sandy clusters, occasionally green shale partings, tight throughout. SHALE; light green to gray, soft, subblocky.
4550-4600	SANDSTONE; dirty brown to dirty gray, firm, fine to very fine grained to silty, commonly argillaceous with micro black carbonaceous inclusion, stringers, and partings, poor sorted, well consolidated, occasionally green glauconite, no visible porosity, predominantly calcareous, no fluorescence stain odor or cut. SHALE; continued as above.
4600-4650	SHALE; gray to gray green, soft to firm, blocky, subwaxy, occasionally black carbonaceous stringers, traces black, fissile, very carbonaceous.
4650-4700	SHALE; gray to brown to dark gray, firm to soft, blocky to platy, occasionally silty in part, occasionally black, splintery, subfissile, carbonaceous. SANDSTONE; off white to light gray, friable, fine to medium grained, subangular, moderately well sorted, black mineral inclusion, silica, trace poor interparticle porosity, no fluorescence stain odor or cut.

DEPTH LITHOLOGY

4700-4750 SHALE; dark gray to gray brown, soft, blocky, subwaxy, occasionally with gray SILTSTONE stringers, rarely carbonaceous. SANDSTONE; dirty gray, firm, fine grained to silty, commonly argillaceous in part, calcareous, tight.

#### MESAVERDE 4,712' (+615')

- SHALE; gray to dark gray, soft, platy to blocky, occasionally subfissile silty in part, occasionally black fissile carbonaceous. SANDSTONE; white to light gray, friable, fine to lower medium grained, subangular, silica, trace slightly calcareous, trace poor intergranular porosity, no fluorescence stain odor or cut.
- 4800-4850 SHALE: grey to dark gray occasionally black, firm to soft, subfissile, commonly silty with black carbonaceous stringers, oceasionally very carbonaceous. SANDSTONE; white to light gray, continued as above.
- SHALE; gray to dark gray to gray brown, soft to firm, subblocky, occasionally black carbonaceous partings, trace silty in, occasionally black very carbonaceous. SANDSTONE; continued as above. oil\commonly silty with black carbonaceous partings and rarely carbonaceous stringers.
- 4900-4950 SANDSTONE; light gray to white to clear, predominantly unconsolidated, fine grained, subrounded to subangular, occasionally well rounded, clear to occasionally frost loose grains, possible fair to good porosity, trace dull yellow fluorescence, NSOC. SHALE; continued as above., predominantly black carbonaceous, fissile.
- 4950-5000 SHALE; gray to dark gray, continued as above, occasionally light green to red brown, blocky subwaxy, occasionally black fissile carbonaceous.
- SHALE; gray to dark gray to gray green, soft to firm, platy to subblocky, occasionally silty in part, trace black carbonaceous, trace loose COAL, black vitreous brittle, vitreous. SANDSTONE; light gray to off white, friable, fine to lower medium grained, subangular, commonly with medium to coarse grained green to black mineral inclusion, slightly calcareous, no visible porosity, no fluorescence stain odor or cut.
- 5050-5100 SHALE; dark brown to dark gray, soft, platy to = blocky, occasionally fine silty with micro black carbonaceous inclusion, occasionally black fissile carbonaceous, traces loose COAL.
- 5100-5150 SANDSTONE; light to dirty gray, firm, fine grained to silty, well consolidated, subangular, abundant fine black mineral inclusion and scattered coarse carbonaceous material, occasionally with black shale parting and stringers tight throughout. SHALE; dark brown to dark gray, firm to soft, platy, commonly fine gritty to silty texture, trace loose COAL fragments.
- 5150-5200 SHALE; dark gray to dark brown, soft, subblocky to platy, occasionally silty in part, occasionally black carbonaceous. SANDSTONE; continued as above, abundant black carbonaceous debris.
- 5200-5250 SHALE; dark gray to dark brown, soft to firm, platy, predominantly silty, commonly with black carbonaceous micro inclusion and carbonaceous stringers rarely with black coal partings.

DEPTH	LITHOLOGY
5250-5300	SANDSTONE; light gray to dirty brown, firm, fine grained to silty, commonly with black SHALE parting and stringers, abundant fine black mineral inclusion, tight, no fluorescence stain odor or cut. SHALE; brown to dark brown, firm to soft, platy, commonly silty in part, trace black carbonaceous stringers.
5300-5350	SANDSTONE; continued as above, abundant silty argillaceous with black to brown SHALE stringers, tight. SHALE; brown to dark brown, soft to firm, platy, commonly with fine gritty to silty texture, occasionally sandy in part, occasionally with black carbonaceous partings.
5350-5400	SANDSTONE; white to light gray, friable medium to lower medium grained, subangular abundant black mineral inclusion, well sorted moderately well consolidated, predominantly silica with occasionally spotty calcareous matrix, trace fair intergranular porosity, no fluorescence stain odor or cut, SHALE; continued as above.
5400-5450	SANDSTONE; white to light gray, friable to firm, s to lower medium grained, subangular to sub rounded, moderately well sorted, abundant medium grained black mineral, occasionally carbonaceous inclusion, spotty white calcareous matrix. occasionally fair intergranular porosity, no fluorescence stain odor or cut. SHALE; brown to dark brown, soft, silty in part trace
5450-5500	SANDSTONE; white to light gray, friable, fine grained, continued as above, occasionally black shale stringers and parting, poor intergranular porosity, trace spotty brown to black possible dead oil stain, NFOC.
5500-5550	SANDSTONE; white to light brown to light gray, firm, fine grained to silty, very fine black to green mineral inclusion, occasionally black shale partings, calcareous, tight, no fluorescence stain odor or cut. SHALE; dark gray to dark brown, soft, platy, occasionally fissile carbonaceous, trace loose COAL, black vitreous, black.
5550-5600	SANDSTONE and SHALE continued as above, occasionally very dark gray argillaceous, trace loose COAL fragments.
5600-5650	NO SPL DUE TO EDR OUTAGE
5650-5700	SHALE; dark brown to very dark brown to black, firm to soft, sub blocky, commonly subfissile very carbonaceous with black carbonaceous material try, rarely varigated trace loose COAL fragments. SANDSTONE; white to light gray, firm to friable, fine to very fine grained, subrounded to subangular moderately well sorted, well consolidated, spotty white calcareous, abundant mineral inclusion and occasionally medium grained quartz grains, tight to poor visible porosity no fluorescence stain odor or cut
5700-5730	SANDSTONE; light brown to off white, firm, fine to lower fine grained occasionally silty, subangular, abundant micro black mineral inclusion, calcareous, no visible porosity, no fluorescence stain odor or cut
5730-5790	SHALE; dark gray to very dark brown, firm, subblocky, commonly very fine silty, occasionally black very carbonaceous, SANDSTONE; white to light brown, very fine grained, tight, continued as above
5790-5820	SHALE; very dark brown to dark gray, soft, blocky, predominantly with micro black carbonaceous inclusion, commonly with black carbonaceous partings and stringers, occasional slightly silty,

inclusion commonly with black carbonaceous partings and stringers, occasional slightly silty,

calcareous.

DEPTH 5820-5850	LITHOLOGY SANDSTONE; off white to light gray, firm to friable, fine grained to lower fine grained to silty, poor sorted, gray to white calcareous matrix, abundant black mineral inclusion, trace black carbonaceous SHALE partings and stringers, no visible porosity, no fluorescence stain odor or cut
5850-5880	SHALE; dark brown, very carbonaceous, continued as above. SANDSTONE continued as above.
5880-5900	SANDSTONE; light gray friable to firm, fine to lower fine grained, subangular, well sorted, spotty white clay matrix, occasionally slightly calcareous, no visible porosity, no fluorescence stain odor or cut.
5900-5950	SANDSTONE; continued as above, occasionally coarse black mineral inclusion, occasionally carbonaceous stringers. SHALE; black to dark gray, firm to soft, platy, occasionally fissile, predominantly carbonaceous, trace loose COAL fragments, black, brittle, blocky vitreous.
5950-6000	SANDSTONE; light gray to gray, firm, fine grained to very fine grained, subangular, well sorted and consolidated, abundant black carbonaceous stringers and partings, no to poor visible porosity, no fluorescence stain odor or cut. COAL; black, brittle, vitreous, blocky, occasionally grading to carbonaceous SHALE; dark gray to black, commonly carbonaceous.
6000-6050	SHALE; black to dark gray, firm to soft, platy, fissile to subfissile, predominantly carbonaceous. COAL; black, brittle, vitreous, blocky.
6050-6100	SHALE; dark gray to dark brown to black, soft to firm, platy to subblocky, commonly with very fine gritty to silty texture, commonly carbonaceous in part.
6100-6150	SANDSTONE, dirty brown to gray, firm, very fine grained to silty, commonly argillaceous, occasionally gray to black SHALE parting and stringers, poor sorted, predominantly with gray clay matrix, occasionally S&P, silica in part, tight throughout. SHALE; dark brown to dark gray to black, firm, platy to blocky, subfissile, commonly carbonaceous, commonly silty in part. COAL, black, brittle, blocky vitreous.
6150-6200	SHALE; dark gray to brown to black, soft, platy to subblocky, commonly carbonaceous, occasionally with fine black carbonaceous inclusion, occasionally silty in part. COAL; black blocky, brittle, vitreous, occasionally fissile grading to carbonaceous SHALE. SANDSTONE; dirty gray, argillaceous, commonly silty, tight throughout.
6200-6250	SANDSTONE; off white to dirty gray to brown, firm to friable, lower medium grained to lower fine grained, subangular to subrounded, poor sorted, commonly argillaceous in part, commonly with black carbonaceous stringers and parting, black to dark gray mineral inclusion, gray non calcareous matrix, no visible porosity no fluorescence stain odor or cut. SHALE; dark gray to dark brown to black, occasionally silty, commonly carbonaceous.
6250-6300	SILTSTONE; brown to dark brown to dl gray, soft, subblocky, fine gritty to silty texture, abundant micro carbonaceous inclusion and occasionally stringers, occasionally sandy in part, tight throughout. SHALE brown to dark brown, soft, platy occasionally carbonaceous in part.
6300-6330	SANDSTONE; white, friable to firm, lower medium grained, subangular to subrounded, moderately well sorted, fine black mineral inclusion, spotty milky white non calcareous matrix, occasionally silica in part, occasionally poor to fair intergranular porosity, no fluorescence stain odor or cut. SHALE; dark gray to brown to black, commonly carbonaceous.

DEPTH 6330-6360	LITHOLOGY SANDSTONE; white to light gray, firm to firm lower fine to medium grained, subangular, occasionally black carbonaceous inclusion, no to poor visible porosity, trace spotty bright yellow fluorescence, NSOC. SHALE; continued as above, trace COAL.
6360-6390	SHALE; dark brown to dark gray to black, firm, subblocky, commonly fine gritty to silty, abundant carbonaceous in part, SANDSTONE; continued as above, decrease amount.
6390-6420	SANDSTONE; dirty gray to white, firm to hard, fine grained to silty, scattered mineral inclusion, abundant black carbonaceous stringers and partings, gray to white non calcareous inclusion, very tight throughout, no fluorescence stain odor or cut. SHALE; continued as above.
6420-6450	SHALE; dark brown to brown, soft to firm, subblocky, predominantly fine gritty to silty grading to argillaceous SILTSTONE, abundant micro to fine black carbonaceous inclusion, stringers and partings, rarely trace coal.
6450-6480	SHALE; dark brown to dark gray to occasionally black, soft, platy, fine gritty to silty texture, micro carbonaceous inclusion continued as above.
6480-6510	SANDSTONE; off white to light gray, firm to friable, fine to lower fine grained, subangular, black mineral inclusion, well consolidated, silica in part, no visible porosity, trace black shale partings, no fluorescence stain odor or cut. SHALE; dark brown to dark gray, continued as above, trace COAL, black splintery occasionally assoc with SHALE.
6510-6540	SHALE; dark brown to dark gray, firm to soft, subblocky to platy, fine gritty to silty texture, predominantly carbonaceous in part.
6540-6570	SANDSTONE; distinct change, light brown, platy, very hard, very silica, trace well consolidated medium grained clusters with coarse coal inclusion and partings, no visible porosity throughout, no fluorescence stain odor or cut,
6570-6600	SHALE; dark gray to dark brown to black, soft, platy, sub fissile to fissile, commonly with fine gritty texture, micro carbonaceous inclusion.
6600-6630	SHALE; dark brown to dark gray to black, continued as above, trace loose coal fragments, occasionally silty in part.
6630-6660	SHALE; dark brown to dark gray to black, soft, subblocky, predominantly with fine gritty texture, abundant black carbonaceous stringers and partings. SANDSTONE; light gray to dirty brown. firm fine grained to silty, occasionally buff slightly calcareous matrix, predominantly silica, tight. trace loose Coal.
6660-6690	SHALE; dark brown to dark gray, firm to soft, subblocky, predominantly silty in part, commonly with micro carbonaceous inclusion, occasionally black carbonaceous stringers.
6690-6720	SANDSTONE; dark brown to brown, firm to hard, fine to lower medium grained, subrounded, well consolidated and sorted, silica in part, occasionally brown stained matrix, occasionally black mineral inclusion, no to poor visible porosity, no fluorescence stain odor or cut. SHALE; brown to dark brown continued as above. COAL; black, brittle, blocky, vitreous occasionally fissile,

grading to carbonaceous SHALE.

DEPTH 6720-6750	LITHOLOGY SANDSTONE; white to off white to light gray occasionally light brown, firm to friable, fine grained, subangular to subrounded, abundant black to red to green mineral inclusion, well sorted and consolidated, no calcareous, predominantly tight with trace poor intergranular porosity, no fluorescence stain odor or cut. SHALE; dark brown to dark gray, subblocky, fine gritty texture, occasionally carbonaceous.
6750-6780	SANDSTONE; brown to dirty brown, firm to hard, fine to lower medium grained, subangular, poor sorted, well consolidated, commonly with brown slightly calcareous possible dolomitic matrix, black mineral inclusion, occasionally light green to brown, waxy, varigated SHALE stringers, no visible porosity no fluorescence stain odor or cut. SHALE; dark gray to dark brown, continued as above, occasionally varicolored light green to brown, waxy rarely varigated.
6780-6810	SHALE; dark brown to dark gray, soft, subblocky, predominantly silty to fine gritty texture, trace carbonaceous in part. SILTSTONE; light brown to brown to light gray, firm, argillaceous, tight. SANDSTONE; continued as above, occasionally light gray silty, tight throughout.
6810-6840	SHALE; brown to dark brown to dark gray, continued as above, trace light green, subwaxy.
6840-6870	SANDSTONE; light gray to off white, firm to hard, fine grained to lower fine grained, subangular, well consolidated, poor to moderately well sorted, fine to micro black mineral inclusion, predominantly silica, tight throughout, no fluorescence stain odor or cut
6870-6900	SHALE; dark gray to dark brown, soft to firm, platy to subblocky, commonly with fine gritty texture, trace with light gray silty stringers, rarely carbonaceous.
6900-6930	SHALE; dark brown to dark gray to black, firm to soft, fine gritty texture, occasionally micro carbonaceous increase.
6930-6960	SHALE; dark gray to dark brown to black, continued as above.
	CASTLEGATE 6,956' (-1,628')
6960-6990	SHALE; dark gray to dark brown, soft, platy, commonly with fine gritty texture, micro carbonaceous inclusion, trace light green to light gray, blocky, waxy. SILTSTONE; light gray to light brown; hard, very fine, occasionally micro black mineral inclusion, occasionally black shale partings, tight.
6990-7010	SILTSTONE; dirty brown, firm, platy, occasionally fine black mineral inclusion, occasionally black SHALE partings and stringers, trace sandy in part, tight throughout. SHALE; continued as above.
7010-7020	SHALE; dark brown to dark gray, firm to soft, platy, fine gritty texture, micro carbonaceous inclusion, occasionally silty in part.
7020-7030	SANDSTONE; brown to light gray, occasionally white, fine to lower fine grained to silty,

well to poor sorted, calcareous, abundant black SHALE stringers and inclusion, no visible porosity, no fluorescence stain odor or cut. SHALE; continued as above.

subangular to subrounded, dark brown to black mineral inclusion, well consolidated, moderately

7030-7040 SHALE; very dark brown to dark gray, firm to soft, platy, commonly silty in part, trace fissile carbonaceous.

- LITHOLOGY DEPTH COAL; black brittle to soft, predominantly blocky vitreous, occasionally assoc with SHALE. 7040-7050 SANDSTONE; white to light gray, friable to firm fine to lower medium grained, subangular to 7050-7060 subrounded, moderately well sorted and consolidated, fine black mineral inclusion, silica, occasionally with black shale stringers, occasionally poor to fair intergranular porosity, no fluorescence stain odor or cut SANDSTONE; continued as above, occasionally silty with gray slightly calcareous matrix, 7060-7070 argillaceous in part, tight. SHALE; dark brown to dark gray to black, soft, occasionally carbonaceous. SANDSTONE; light gray to light brown, firm to fair, fine grained to silty, subangular, poor sorted, 7070-7080 tight, no fluorescence stain edor or cut. CLAYSTONE?: light brown, very soft, waxy, occasionally floating quartz grains, moderately bright yellow mineral fluorescence. SHALE; continued as above. SHALE; dark gray to brown to black, platy, subfissile, occasionally carbonaceous. 7080-7090 SANDSTONE; light gray, firm to hard, very fine grained to silty, calcareous, tight, no fluorescence stain odor or cut. SANDSTONE; light gray, friable to firm, fine grained to silty, micro black mineral inclusion, 7090-7100 argillaceous in part, calcareous cement, tight throughout, no fluorescence stain odor or cut. SHALE; light gray to green to brown to dark gray to black, very soft, platy, splintery, subfissile, 7100-7120 commonly waxy, occasionally with scattered quartz grains, trace black carbonaceous, trace fine gritty texture as above. SHALE; gray to gray green to dark gray, soft, splintery, subwaxy, occasionally black 7120-7130 carbonaceous, occasionally silty in part. SANDSTONE; light gray to gray, friable to firm fine to lower fine grained, subangular, very fine 7130-7150 black mineral inclusion, predominantly silica, trace calcareous cement, no to poor visible porosity, no fluorescence stain odor or cut. SHALE; varicolored, green to gray to brown to red brown, soft, blocky subwaxy to waxy, commonly dark gray to black, carbonaceous in part continued as above. SANDSTONE; light gray to gray, friable to firm, fine grained to lower fine grained, well sorted 7150-7160 and consolidated, micro black mineral inclusion, silica, no visible porosity, no fluorescence stain odor or cut. SHALE; continued as above, decrease amount varicolored, waxy. SANDSTONE; light gray to dirty gray, friable, very good grained to silty, fine black mineral 7160-7180 inclusion, black shale stringers, tight, no fluorescence stain odor or cut. SHALE; gray to dark gray to black, firm to soft, platy, subfissile, occasionally black carbonaceous, traces light green to brown, blocky waxy, rarely varigated.
  - 7200-7210 SHALE; dark gray to dark brown, firm to soft, subplaty to subblocky, predominantly with fine gritty to silty texture, trace silty, commonly with fine black carbonaceous inclusion.

SHALE; dark gray to dark brown to black, firm to soft, platy, occasionally splintery, subfissile

commonly carbonaceous in part, trace light green to red brown, blocky, waxy, trace varigated.

TD at 7210', 17:00 hrs, 8/25/07

7180-7200

Summit Operating LLC Federal H 34-30 43-047-38883 30 105, 24e



TI	ME		DEPTH		MORNING TOUR	¥7.			UMP				1	
FROM	70	FROM	TO	AMOUNT	FORMATION AND DESCRIPTION OF WORK DONE	10000	a,ze	LINERS	.P.M. PAZ88	PATRICI	L RECORD		HRS.	INJURY
23.00	23:11	4.52		1 2472574	Rindrin					DRILLE	. 1-17/1/1//		8	JR NO
a.Pirk	24/2011			ļ	Rig down					DERRIC	KMAN DOUGH LU	ehster	3	MA Al
	21:00				Bir down					MOTOR	O II E JE F JO	Colden Market Market State Anni State Market State Sta	35	AC L
01:00	SUBSECTION OF THE PARTY OF				Bin driving				-		MAN James con		Я	XW
1210	MEGISTRESWIMMUSES				Rin down South						IAN SHOWN < 5		प्र	1777
03:00°	STATES OF THE PARTY OF THE PART				Big charings &					CASS SEASON CONTRACTOR	kmm = Rener	cos Miniterial Meleculose son securedados Sucumentos Sueda	7	KE KI
rave sarrowskie	25.00		20, 10 (24-1) 2		Just 12 12 18 18 18 18 18 18 18 18 18 18 18 18 18	50.000			BIT RECORE	)	MFG SER#	TOTAL FTG.		
Bun	Obile				Rigidalia			BIT NO.			JET SIZE	D CUT. STRUC.	1 1 1	1
425			Grand Con					SIZE			DEPTH IN	UIODL		
	OUR	NO.	FEET		TOTAL WEIGHT OF DRILLING STRING LDS.	A LANDER	Barrie.	IADC CO	动物设施的 似蜘蛛 依定以下		DEPTH OUT	L B G O R		
KELL			Store St.	CORRECT	MEASUREMENT YALLY BOARD	COR	RECTIO		PT.	DATE LAS	TOIL CHANGES	"228 #3228 LP12174 LPTY	1D DSI	DST
	GOGGERALD GROUPS	が出ていませるMSのRs	REPORT NAME OF THE	55 X80712504032566781785900		KINDS CHEEKS								
COLL	ARS				MUD RECORD		EES DE	PTH DRI	LLING TIME	но	URS CORING TIME	HOURS REAMING T	京河(田)的公司	HOURS
STAN	D6			TIME W	MUD AND CHEMICALS ADDED			PTH DRI	LLING TIME	Lorel	A F 9/8 hrs	HOURS REAMING T	京河(田)的公司	HOUR
9 4	D6			TIME W	MUD AND CHEMICALS ADDED			PTH DRI	REMARKS:	Langel. Alea	ORING TIME		京河(田)的公司	HOURT
STAN SING	DS LES			TIME	MUD AND CHEMICALS ADDED			PTH DRI	REMARKS:	Land Alaa Alaa	CORING TIME  A 1918 hrs.  CON (O) MIC	HOURS REAMING T	京河(田)的公司	HOURT
STAN	DS LES			Time W	MUD AND CHEMICALS ADDED			Pm DRII	REMARKS:	HOU Aland Alan Alan	AND SONING ONLY	HOURS REAMING T	京河(田)的公司	HOUR
BING TOTAL	DS LES			TIME W	VIEC. W.L. CARE P.H. SAND PV YP AMOUNT KIND	Decin		PM DRII	REMARKS:	Lord Algar	ACLUMA CORING TIME APPLIANT AND ACCORDANCE OF THE ACCORDACCORDANCE OF THE ACCORDANCE OF THE ACCORDANCE OF THE ACCORDANCE	HOURS REAMING T	京河(田)的公司	HOURT
SING SING TOTA TOTA	DS LES L SSUP L DEPTH		DEPTH		VISC. W.L. CARE P.H. SAND PV YP AMOUNT KIND	VT.		R	REMARKS:	Long Alan	ACLUMA CORING TIME APPLIANT AND ACCORDANCE OF THE ACCORDACCORDANCE OF THE ACCORDANCE OF THE ACCORDANCE OF THE ACCORDANCE	HOURS REAMING T	京河(田)的公司	
BING TOTAL	DS LES L SS CUP L DEPTH ME	FROM	DEPTH TO	TIME W	VIEC. W.L. CARE P.H. SAND PV YP AMOUNT KIND	Deani WT:		R	REMARKS:	Along PAYROL	CORING TIME A 19/8 ACS COA (OS MICE AMAS A 19/4 ACS A 1	POPULATION OF THE PROPERTY OF	HRS	INJURY
BING STAN STAN STAN STAN STAN STAN STAN STAN	DS LES L SSUP L DEPTH	FROM			VISC. W.L. CARE P.H. SAND PV YP AMOUNT KIND	VT.		R	REMARKS:	Air ing	CONTRACTOR	HOURS REAMING TO	IME	INJURY
SING TOTA	DS LES L SS CUP L DEPTH ME	FROM			VISC. W.L. CARE P.H. SAND PV YP AMOUNT KIND	VT.		R	REMARKS:	Air ing	CONTRACTOR	HOURS REAMING TO	HRS	INJURY
SING TOTA	DS LES L SS CUP L DEPTH ME	FROM			VISC. W.L. CARE P.H. SAND PV YP AMOUNT KIND	VT.		R	REMARKS:	PAYROL DRILLER MOTORM	CORING TIME  A F 9/8 hrs.  CON (B) MICH  KMOD  A FOUND  L RECORD  KMAN R US BE  AN BYRON	HOURS REAMING TO	HRS. 12	HOURT INJURY
SING TOTA	DS LES L SS CUP L DEPTH ME	FROM			VISC. W.L. CARE P.H. SAND PV YP AMOUNT KIND	VT.		R	REMARKS:	PAYROL DRILLER MOTORM	CORING TIME  FORM OF MICHAEL  RECORD  L RECORD  KMAN RUERE  AN BYRON  IAN MICHAEL	HOURS REAMING TO	HRS	INJURY
SING SING TOTA TOTA	DS LES L SS CUP L DEPTH ME	FROM			DAY TOUR  FORMATION AND DESCRIPTION OF WORK DONE  R D R T	VT.		R	REMARKS:	PAYROL  DRILLER  DERRICE  MOTORM  FLOORM	CORING TIME  FORM OF MICHAEL  RECORD  L RECORD  KMAN RUERE  AN BYRON  IAN MICHAEL	HOURS REAMING TO	HRS. 12	YRUCHI
BING STAN STAN STAN STAN STAN STAN STAN STAN	DS LES L SS CUP L DEPTH ME	FROM			VISC. W.L. CARE P.H. SAND PV YP AMOUNT KIND	VT.		R	REMARKS:	PAYROL DRILLER DERRICE MOTORM FLOORM	CORING TIME  FORM OF MICHAEL  RECORD  L RECORD  KMAN RUERE  AN BYRON  IAN MICHAEL	HOURS REAMING TO	HRS. 12	INJURY
BING STAN STAN STAN STAN STAN STAN STAN STAN	DS LES L SS CUP L DEPTH ME	FROM			DAY TOUR  FORMATION AND DESCRIPTION OF WORK DONE  R D R T	VT.		R	REMARKS:	PAYROL DRILLER DERRICE MOTORM FLOORM	CORING TIME  FOR STATE  CONTROL  CONTRO	HOURS REAMING TO	HRS. 12	YRUCHI
BING STANGE OF S	DS LES L SS CUP L DEPTH ME	FROM			DAY TOUR  FORMATION AND DESCRIPTION OF WORK DONE  R D R T	VT.		C C C C C C C C C C C C C C C C C C C	REMARKS:	PAYROL DRILLER DERRICE MOTORM FLOORM	CORING TIME  A T 9/8 ACS  SON (B) MICHASI  KMAN R UE BE  IAN BYRON  IAN MICHAE  MEG	HOURS REAMING TO	HRS. 12	INJURY

OTHER DESIGNATION AND ADDRESS.			TIME	WT. VISC	E .	V.L. C	AKE	P.H. 2.	AND I	PV Y		CHEM	ICALS A	DDED KIND					REM	ARKS									HUU
BINGLES			4.5											gles va in	# 2 To 1						A COLL								
TOTAL																			K. 1										
KELLY UP		100 mg/H													34 1														
TOTAL DEPTH	1	k,			92																						Marie .		
TIME ROM TO	FROM	TO	AMOUN	T			100	AND E	DESC	RIPTI	ON OI	F WOR	K DONI		W1 IN 100	R		INERS	FUMP S.P.M.	PAESS	PAYR	OLL	RECORD					HR	ו. ואטנ
			1000										diant.								DRIL	LER							
																					DERR	ICKM	AN						
												18	The second								мото	RMA	N						
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						100		100 PM											FLOC	RMA	<b>v</b>						
									e (7)	0%											FLOC	RMAI	1						
								<b>7</b> - 1				9.63		421	•				9										
							_ be												BIT	RECOR	)		MFG				TOTAL FTG.		
	47 ( ja ) 1 2 j									A 198							B	IT NO.					SER#				TOTAL HRS.		
																	SI	IZE					DEPTH IN				D CUT. STRU	C	
			10. 20.4	HORSE PERSONNELLERS	and the second	WEIGH	and the same	per setting in the	error the figure of the	STRI	NG			LB8.			IA	DC C	ODE			9803 50	DEPTH OL	т			L B G O		
KELLY 911	E NO.	PECT.		IPE MEABUR			UT O	F) HOL				TALLY	Y BOARD			ORREC	TION	PLUS MINUS	i en e	FT.	LIST AL	L EN	GINES DIL CHA	#1	#2	#3		Pa DS	D OS
COLLARS		The same of	LALL		11			MUD	REC	50,000,000,000,000				Described to	DE	DEVIA.		DR	ILLIN	G TIME			COR	The Target State	<u>.</u>	HOUR	S REAMIN	3 TIME	нои
STANDS			TIME	WT. VISC	. w	L. C	KE	P.H. 9A	ND P		D AND		CALS AD	KIND					REM	ARKS:			. Valida						
BINGLES	in distribution																									Jan Jan			
TOTAL																	2 (24)			4 7 10 10 4 7 10 10 10 10 10 10 10 10 10 10 10 10 10									
KELLY UP																		200											
TOTAL DEPTH					題 麗																		MIN AND	175					
	mmit	- 00	ratio	ins l	., <i>I</i> .,	6		ielda under	u <del>h Tin</del> r sur	face,			se <u>117</u> day w	ithout	a lost	time	accid	ent.	No.3	Silative	c30	_ Tw	ام <u>کرا د</u> و	Range	a-y-E <sub>Co</sub>	ounty_ Coring_	<i>Lipe Tes</i> S hours	tate <u>// 7</u> Reamin	<u>a.k.</u> jh
ompany <u>Su</u> g No. <u>A.A.</u> illing Line: A	This is	-44	_ day oi No	n well, . . Lines_l	<del>ک</del> ک	T.M. Us	sinc SE I	e last BACK	t cut	YEL	LOW	Total V SHE	T.M	OR CA	LCULA	_ Date	ALL S AT	g. 7	KETO	AP HES	.,20 <i></i>	7.					ULL AND CO		OOLPUS

OCT 0 3 2007
DIV. OF O'L. GAS & AMAINIS

TIME		DEPTH	MORNING YOUR	77	apu.		PUMP	PAYROLL RECORD		
FROM TO	FROM	TO AMOUNT	FORMATION AND DESCRIPTION OF WORK DONE	1000#		LINERS	PRESS		HRS.	אאטנאו
2200 2300			LAY DOWN DR.					DRILLER Jimmes Regula	8	TBN
TRON ERAD			LAN DOWN DP		100			DERRICKMAN David Webster	8	DELAN
0010 Oca5		Late of the second	LOU DOLLEY OF CON					MOTORMAN ROOF Grain	8	カルト
2100 Dian	4 2 2 2		THE CAPPE				L. A.	FLOORMAN / Com = 5 CONT2	1	TIME
3200 <b>03</b> 00			LAMPIE RigeDrassinis					FLOORMAN SAGLIKE SAGELINE	18	Fee 1
300 0400			River March Comment							encounts.
3600 3500			Acut call				BIT RECORD			
0500 05m			River record			BIT NO.		SER # TOTAL HRS.		
A SALES OF THE SALES						SIZE		DEPTH IN U I I O D		
			TOTAL WEIGHT OF DRILLING STRING LSS.			IADC CO	PROPERTY SERVICE SERVICE FOR	DEPTH OUT 247		
KELLY PITE	NO.	DRILLPIM CORRECT	MEASURED (IN) (OUT OF) HOLE MEASUREMENT YALLY SOARD	COR	RECTIO	PLUS N MINUS	PT.	DATE LAST OIL CHANGE TO A 2 18 3 18 19 18 1	Po DSC	DST
COLLARS			MUD RECORD		VIATIO	HTH DRI	LLING TIME	HOURS CORING TIME HOURS REAMIN	整 等 3 年 8 年 8 年 8 年 8 年 8 年 8 年 8 年 8 年 8 年	1915 1948 1948 1948 1
STANDS		TIME W	VISC. W.L. CAKE P.H. SAND PV YP AMOUNT KIND				REMARKS:		STATE OF THE PARTY	HOURT
SINGLES						Q.	ainh Pa	CONTROL OF THE PROPERTY OF THE	PERSONAL PROPERTY.	
TOTAL						623/3840 Ego-products	101 900			
Washington to Company transaction										
KELLY UP	100000000000000000000000000000000000000								-1750	
						F		Anno	esestore describer essential	
TOTAL DEPTH		DEPTH	DAY TOUR JAN.	wr.		and house state of the same	K \ :	1. Pag 12	esestore describer essential	
TOTAL DEPTH	FROM	DEPTH TO AMOUNT	DAY TOUR JAN. FORMATION AND DESCRIPTION OF WORK DONE	WT.		and house state of the same	₩ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Anno	esestore describer essential	YNULNI
TOTAL DEPTH TIME FROM TO	The second second			IN		,	₩ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1. Pag 12	<u>-</u> 700	YRULNI
TOTAL DEPTH TIME FROM TO	The second second		FORMATION AND DESCRIPTION OF WORK DONE	IN		,	₩ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	CA 909.1- PAYROLL RECORD	<u>-</u> 700	INJURY
TOTAL DEPTH TIME FROM TO	The second second		FORMATION AND DESCRIPTION OF WORK DONE	IN		,	₩ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	PAYROLL RECORD  DRILLER ( ) Laster	<u>-</u> 700	INJURY
TOTAL DEPTH TIME FROM TO	The second second		FORMATION AND DESCRIPTION OF WORK DONE	IN	į	,	₩ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	PAYROLL RECORD  DRILLER D LOST 17  DERRICKMAN RILDEN Sancher	<u>-</u> 700	PS no
TOTAL DEPTH TIME FROM TO	The second second		FORMATION AND DESCRIPTION OF WORK DONE	IN		,	₩ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	PAYROLL RECORD  DRILLER ( ) Laster  DERRICKMAN RILDEN Sanches  MOTORMAN By FON Leather	HRS. 13	PS no
TOTAL DEPTH TIME FROM TO	The second second		FORMATION AND DESCRIPTION OF WORK DONE  LIGHT CASING	IN	•	,	₩ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	PAYROLL RECORD  DRILLER ( ) Laster  DERRICKMAN RILDED Sanches  MOTORMAN BY FOR Leather  FLOORMAN	HRS. 13	PS DO
TOTAL DEPTH TIME FROM TO	The second second		FORMATION AND DESCRIPTION OF WORK DONE	IN		,	₩ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	PAYROLL RECORD  DRILLER ( ) Laster  DERRICKMAN RILDED Sanches  MOTORMAN BY FOR Leather  FLOORMAN	HRS. 13	PS no
TOTAL DEPTH TIME FROM TO	The second second		FORMATION AND DESCRIPTION OF WORK DONE  LIGHT CASING	IN	i i	,	UMP P.H. PRESS	PAYROLL RECORD  DRILLER ( ) LOST ( DERRICKMAN RILLDEN Sanchez  MOTORMAN RILLER TOO LEST HERT  FLOORMAN MILE TOIL TO TOTAL FTG.  SER # TOTAL FTG.	HRS. 13	PS no
TOTAL DEPTH TIME FROM TO	The state of the s		FORMATION AND DESCRIPTION OF WORK DONE  LIGHT CASING	IN		UNCO S	UMP P.H. PRESS	PAYROLL RECORD  DRILLER ( ) Lastir  DERRICKMAN RIDER Sanchez  MOTORMAN RIDER Leather  FLOORMAN  FLOORMAN  MFG  SER H  JET SIZE  DICUT. STRU	HRS. ()	PS no
TOTAL DEPTH	The state of the s		FORMATION AND DESCRIPTION OF WORK DONE  PLAN CASING  TOOMY CLEAN  NEED ME	IN		LINERS S	UMP P.M. PRESS  BIT RECORD	PAYROLL RECORD  DRILLER A LOST IT  DERRICKMAN RILL DE DE SANCHEZ  MOTORMAN TO FLOORMAN  FLOORMAN  MFG  SER H  LITERIES  TOTAL FTG.  TOTAL FTG.	HRS. ()	PS no

RECEIVED

	55		1000 A	TIME	WT.	VISC.	W.L	CAKE		I. SAN	D PV		AND CHEN	KIND				REM	ARKS:	15 m	n sufetie no	Hines	adaem es	1015	
BINGL	ES																				n sulety mp	d	7		
TOTAL																									
KELLY	S																								
1 2 3 H3 H5	DEPTH					(A) (A)	Carried St		1								eh	olo o o	1 .	I in H	743 Torque Par	unders			
TIM	-		DEPTH		Ε	VENING	G TO	UR							WT.			-ump			LL RECORD				
FROM	то	FROM	то	AMOU	NT.		FOR	MATIO	N AI	ID DE	SCR	IPTIO	N OF WO	RK DONE	. 1000#	RPM.	LINERS	8.P.M.	PRESS	PATRO				HRS.	ועאו
													art is							DRILLI	ER				
			Me exist																	DERRI	CKMAN				
													+10	N						мотоя	RMAN				
	4477											in the								FLOOR	IMAN				
		· · · · · · · · · · · · · · · · · · ·	7 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6							4										FLOOR	MAN		e Company of Augusta		
100									. 3	W.				entry (	M. in										
								W.C.				T MEN						BIT	RECORD	100	MFG		TOTAL FTG.		
			770 C± 1														BIT NO				SER #		TOTAL HRS.	7	
													· · · · · · · · · · · · · · · · · · ·				SIZE				DEPTH IN		D CUT. STRUC.		
						TOT	AL WE	IGHT	OF D	RILLI	NG I	STRIN	IG .	L85.			IADC C	ODE:			DEPTH OUT		LBGOR		
KELLY	BIZE	NO.	ZEET	DRILL	PIPE I	MEASURE	ED (IN	) (OUT	(OF)	HOLE			TAU	Y BOARD	cor	RECTIO	PLUB N MINU			IST ALL	ENGINES #1 #	#3	LP1 LP3	DSO	DS
COLL	ARG								м	UD R	ECO	RD				EVIATIO	N DE	RILLING	22.20.20.20.20.20.20.20.20.20.20.20.20.2		OURS CORING TIME	HOU	S REAMING T		нои
STAN	and the parties			TIME		VISC	Ī.,						AND CHES	IICALS ADDED				Sissis	ARKS:	1			NEAHING !	IMI-	HOU
BINGL	regional de la companya de la compan																								
TOTAL														1.00											
KELLY	<b>阿斯斯斯斯斯</b>							e Company																	
	Oracle Sales	Marine Son						3 25 25						78 I T 18 04 4		Control of the Control				Allander I					
							A STATE OF				SER DENIES											-			
TOTAL	ortanikadskieles		State of the state of			1.51.1.1	c /	16	_ Fic	eld 🕰	15%	An!	Alde le	ase <u></u>	6621		_ Well	No.3	or_Se	c.25_	Twp. 10-5 Range 24	_County_	GINTA State	070	76
TOTAL	ortanikadskieles	Jan , 2	1 0	oer		The state of the s	THERE PER	CONTRACTOR DESCRIPTION OF THE PERSON OF THE																	
TOTAL	ny <u>.5</u> .										surf	ace	(1) 1000年 (1) 10	day without a				Company of the	the distribution of the control of t			E COLIDO	D.		
TOTAL Compar Rig No.	1y _5.	. This is	10	day	on w	ell, 🗀	7.	_ da	y ui	nder											Drillinghou				
TOTAL Compar Rig No.	1y _5.	. This is	10	day	on w	ell, 🗀	7.	_ da M. si	y ui nce	ider last	cut.		Tota	ITM.		Date_	۶.	金	07				hours Re		
TOTAL Compar Rig No.	1y _5.	. This is	10	day	on w	ell, 🗀	7.	da M. si USE	y ur nce	last CK	cut. OF	YEL	Tota	ITM.	CULAT	Date_ 10NS	AND S	SKETC	07 HES						OLPUSH
TOTAL Compar Rig No.	1y _5.	. This is	10	day	on w	ell, 🗀	7.	da M. si USE	y ur nce	last CK	cut. OF	YEL	Tota	ITM.	CULAT	Date_ 10NS	AND S	SKETC	07 HES						DLPUSH
TOTAL Compar Rig No.	1y _5.	. This is	10	day	on w	ell, 🗀	7.	da M. si USE	y ur nce	last CK	cut. OF	YEL	Tota	ITM.	CULAT	Date_ 10NS	AND S	SKETC	07 HES						OLPUSI
TOTAL Compar Rig No.	1y _5.	. This is	10	day	on w	ell, 🗀	7.	da M. si USE	y ur nce	last CK	cut. OF	YEL	Tota	ITM.	CULAT	Date_ 10NS	AND S	SKETC	07 HES						OLPUSH
Compar Rig No. Drilling	72 Line: M	. This is	_10 '	. day (	on w	rell,	<u>−</u> 7T.	da M. si USE <b>M</b>	y ui nce E B/	last CK ES	cut. OF UR	YEL E A	Tota	ITM	CULAT	Dale_ IONS , Al	AND S	SKETC	o7 HES CT	,20	THIS	REPORT (S			OLPUSI
TOTAL Compar Rig No.	72_ Line: M	This is ake	_/O	day (	on w	nes	T.	da M. si USE M	y unnce E BA	last CK ES	cut. OF UR	YEL E A	Tota	ITM	FILLED	Date_ IONS , AN	AND S	DRRE	<u>07</u> неs <b>CT</b>	.,20		REPORT (S			0Leusi
TOTAL Compar Rig No. Orilling	72_ Line: M	This is ake <u>I</u>	TELS ES	day (	on w	nes	T.	da M. si USE M	y unnce E BA	last CK ES	cut. OF UR	YEL E A	Tota	ITM	FILLED	Date_ IONS , AN	AND S	DRRE	<u>07</u> неs <b>CT</b>	.,20	THIS	REPORT IS		TO	DLPUSI 22 22

OCT 0 3 2007
DIV. OF OIL, GAS & MINING

DRILLER	MUST FIE	IN EAC	H SPACE	ORT OF A	HICH IS APPLIC NY INJURY TO Without Fail	AN EMPLOYEE		ACH EMPLOYEE N	ULT LIE		YROLL	RECOR	DONT	HIS REPORT SHOWING TIME WORLD	DAILY DRILL (ED. HOURS REAMING	LING A	REPOR 1554
	ME		DEPTH		MORNING TOU				WT.	RPW	=	PUNP	(T)	PAYROLL RECORD		HRS.	INJURY
FROM		FROM	ТО	AMOUNT	educing species was distributed for	ATION AND DES	CRIPTION OF WO	K DONE	1000€		LINER	0.P.W.	PRESS		N. C.		
<u>79,92</u> A 2,00	- 100	0011			Drto			Contraction by the contraction of the contraction o	vii.	ZiEn.	77 cH	133	161A	DRILLER West of The Wash	( Can-700)	7	TV/0/2
1,460	Add 1			the thousand	Dela			<b>%</b>	107,124	7131	i ii	1 25-24	7561	MOTORNAN ROTO Han	le main		211111
0100	7700			5-	Dela				20%	5×nt	11.13	120	少為行	TOTAL CONTROL OF THE PROPERTY OF THE PARTY O			WINN
100	7200		95		Dric	1	30N							FLOORMAN Significance (N).			IVEL TY
010	estation.				Dela	-0 W								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		17	
(U)	OCT.				Orto 3							ВІТ	RECORD		TOTAL FTG.	036	
200	7,3		7070	259	Dria			1165			BIT NO	).	١	SER # 7111 (72.7 )  JET SIZE 4/1/4	TOTAL HRS.	75/2	
							e Se ale el les este este este este este este	7 153 44			SIZE		7%	DEPTH IN 2014	D CUT. STRUC.		
					A CARDON CONTROL OF CO	AND ALCOHOLOGICAL COMPANY OF THE PERSON OF T	NG STRING   C C	2023		0.50	IADC	-	Pok	DEPTH OUT	L B G O R		
KELL	Y SIX	通知在海岸	7007	CORRECT	MEASURED (IN)	(OUT OF) HOLE	TALL	Y BOARD		RECTIO			F7.	LIST ALL ENGINES #1 195 #2	4 #3 1/4 CBE 140 LP3	to DSD	DST
COLL	ARS LYO	MAN STATE	467.07	-1314	<del>-</del>	MUD RE	CORD MUD AND CHES			(ES) [D]		RILLIN	STIME	HOURS CORING TIME	HOURS REAMING	TIME	HOURE
STAN	engladische in es d	71	660s1	TIME W	. VISC. W.L	CARE P.H. SAND	PV YP ANOUNT	KIND Layes				REM	ARKS:	VC.om		OFF	1400
SING	THE SECTION SECTION	1	7090	-115 10 i	3 1/50 5.19		1/0/3	70 34 35 35 35 35			. A	c KARN				10 kg	masshushushushus
TOTA	THE PROPERTY AND PARTY.	10. 40a.e) 0	7/3	dil in	2 750 111		1.5	Selve vit	12. 50m, 10.	20 字面 表 新教	出	(G		14.7070		ane	1 5.2
			7070				Store	7 10 1 8 1172	717		61			the 127 parad Fools	1 1011 1011 2001 1++ Hus 791		10 m. 4 m. 2 m. 1
TOTA	L DEPTH		DEPTH		DAY TOUR	4.		11 (3)	WT.		/-	PUMP		La Company of the Com	ALLIFTIGE CONT.		
FROM	то	FROM	то	AMOUNT	FORM	ATION AND DES	CRIPTION OF WOR	IK DONE	IN 1000#	RPM	LINERS	6.P.M.	PRESS	PAYROLL RECORD		HRS.	PAUCHI
600	700	סדטק			Dila		n de Sanda de Wa						1240	DRILLER KALLSTA CO	r-330mi.	12	KV 11
700	.800				Orlo									DERRICKMAN TO # STOURD		12	A5 100
goe	900				Urla		· · · · · · · · · · · · · · · · · · ·	<b>W</b>						MOTORMAN LOF HEIRE		12	RHN()
1000	10		7122		7/19	X 1 L								FLOORMAN JOHN 1) SUPPR	NOF	12	JDS /
1100	1200				Rightz	Drlatze			19 4	<i>-11</i>	V C	111-	.07	FLOORMAN THIMPS MINIS		17_	Mil Ma
ines	1300				Orto				少污藏	190	9229	1250 (ALCOHOL)	10×80°			-141-0	
100	J seri		71-/	1-1	1013	<b>\*</b>				100 Miles			RECORD	SER # 7/11/687	The state of the s	23	
000	12		7176	1010	orlig	<b>1</b>			100000		BIT NO	) i e	7%	JET SIZE 6x16	TOTAL HRS. D CUT, STRUC	83	
2							io eranis 1//	0000 LBS			IADC	CODE	000	DEPTH IN 2034	U I O D L		
KELL	SIZE	NO.	PERTHO	DRILLPIM	MEASURED (IN)	OUT OF BRILLIN					PLUP		20 20 1 20 2	DEPTH OUT DEPTH OUT DATE LAST OIL CHANGE 210 #2/	andreasa de la latina de latina de la latina de la latina de la latina de la latina de latina de la latina de la latina de la latina de la latina de latina de la	DSD	DST
	STRUCTURE FRANCES	division in	40	CORRECT	MEASUREMENT		TALL	Y BOARD	COR	RECTIO	N MINU	<b>S</b>	A.	DATE LAST OIL CHANGE 410 1	16 116-152	10	

OCT 0 3 2007
DIV. OF OIL, GAS & MINING

STANDS W	77	115722		Ser lette			Contraction of	MU	D AND CH	EMICAL	ADDED	1					7 . 12	- CON.111G	1/ 1		HEAMIN	Consideration A con Las	HOURS
BINGLES TO	/ 🦢		TIME	WT. VIE	C. W.L.	CAKE I	P.H. BAND	PV YP	AMOUN	12	KIND			2310	REM	ARKS	TrippedCr	nun-H	North	TOCKLIK	THE	Controller accordance	1416k
TOTAL		7184		1.6 3 G					7 1	195	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7		11)	O. IT	114	1-52545	011011	pa WHECE	PEL A			UL-154
LESS KELLY UP		8	7.00	un werk					CL F	1000	1	1 1		111	000	NOUNCA AGA	ed Table	K.Choi	L. ARD.	ONA. H	1 Compa	Francis,	Kot Hear
TOTAL DEPTH		7176					700			That	4.0313000 4.03260	50		II.	BUP IJ C	POP	Lines Ac	- Chor	SE IVICTORY	TOH W	orken k	ellyorth	or velve
TIME		DEPTH		EVENI	NG TOU	R	.д-			Vr.S.	ale I Zerving	WT.		, ,,,,,	PUMP	16-6-27	Maxiling	4,041,050	TRINGITIES VI	Mad J	AR KOLIK	TIM, COPY	itel tem
FROM TO	FROM	TO .	AMOUN	τ	FORM	NOITA	AND DES	CRIPTIC	N OF WO	DRK DO	ONE	IN 1000#	RPM	LINERS	8.P.M.	PRESS	PAYROLL RE	CORD				HRS	. INJURY
130 30	7176			Mrk			•		100								DRILLER	Jin	my B	Barre	187 /	4	TRIL
700 2pe				Orla								in the second con-					DERRICKMAN	Unicial investment of the	1 1.1	Managara Madindayora yan	Control Contro	41	211 00
400 500		7210	34	Drle	4				43								MOTORMAN	Bener	0000	4 8		W	RC NO
500 600				Cir	٤			d	1760								FLOORMAN	Tome.	( con	77		A)	In am
Linn 708				51/2		DIEM.	11 Der	WP.	T.1.	pH_							FLOORMAN .				12	4/:	70 7
7 00 8:00				T.1	5.4																		
8.00 1.00	57 - Sa		1000	77	7 14				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						BITR	RECORD	CONTRACTOR OF THE PERSON OF TH		15062		TOTAL FTG.	5176	
200 1000				70.	1.17							100		BIT NO.		1	SEF	SIZE	111687		TOTAL HRS.	86	
<u> </u>	Solvada (													SIZE		7%	THE RESERVE THE PARTY OF THE PA	22-12-1-12-27-22-22-22-2	2074		D CUT. STRUC		
				Some Lessonship County	THE REPORT OF THE PARTY OF THE		windstransura see	attack windowskie	o suggested the measures	N. A. B. B. B. Sterner	ON THE RESIDENCE AND ADDRESS OF THE PARTY OF		na President mate	1011 10 St. Life Table	AND STREET, ST	7 D	UE	TH IN			O DE COMPANIE	Y 物質 磁道 高級 以	ON THE PARTY BEAUTY SHOWING
	но.							G STRIN	16 16t	000	00 LB6			IADC CO	ODE Ø	POC	DEF	TH OUT	7210		L B G O F		
KELLY SIZE	<b>在上人的物质之类</b>	100		TO MEASU	RED (IN)	(OUT OF	F) HOLE	100 (100)		_ <u>_</u> _00				PLUS MINUS		700		TH OUT	7210		L B G O F		DST
COLLARS JE	5-WC3	187.07		PE MEASU	RED (IN)	(OUT OF		CORD	YAL	LY 00/	(RD		MRKCTIO	PLUS MINUS		TIME	DEF	TH OUT	7210	10#3 81	L B G O F	P2 DDSC	DST
COLLARS F	72	\$7.07 657.32	TIME	T MEASUF	RED (IN)	(OUT OF	F) HOLE	CORD		LY BOA	(RD		EVIATIO	PLUS MINUS		TIME	IST ALL ENGIN	TH OUT	7210	10#3 81	L B G O F	P2 DDSC	
COLLARS L	72 X	1657.32 31.19	TIME	T MEASU	RED (IN)	(OUT OF	F) HOLE	CORD	TAL	LY BOA	(RD		EVIATIO	PLUS MINUS	ILLING	TIME	IST ALL ENGIN	TH OUT	7210	10#3 81	L B G O F	P2 DDSC	
COLLARS JE	72 X	\$7.07 657.32	TIME	T MEASUF	RED (IN)	(OUT OF	F) HOLE	CORD	TAL	LY BOA	(RD		EVIATIO	PLUS MINUS	ILLING	TIME	IST ALL ENGIN	TH OUT	7210	10#3 81	L B G O F	P2 DDSC	
COLLARS 12 STANDS IN SINGLES TOTAL LESS KELLY UP	72 X	167.07 8 167.32 31.19 72.15	TIME	T MEASUF	RED (IN)	(OUT OF	F) HOLE	CORD	TAL	LY BOA	(RD		EVIATIO	PLUS MINUS	ILLING	TIME	IST ALL ENGIN	TH OUT	7210	10#3 81	L B G O F	P2 DDSC	
COLLARS LESS TOTAL  ESS TOTAL  ESS TOTAL  TOTAL DEPTH	72 ( X	1210	TIME ROD A	WT. VISC	w.L.	CAKE P	MUD RE	CORD PV YP	AND CHE AMOUN	LY SOA	ADDED KIND	006	EVIATION DET	PLUS MINUS THI DR	ILLING RÉMA	TIME	DEFIST ALL ENGINATE LAST OIL  3 HOURS	TH OUT NES # CHANGE CORING	72)0 214 #218 TIME	(O#3)86	L B G O F	P2 DSG	HOURS
COLLARS LESS TOTAL LESS TOTAL DEPTH	72 ( X	1210	TIME ROD A	WT. VISC	w.L.	CAKE P	MUD RE	CORD PV YP	AND CHE AMOUN	LY SOA	ADDED KIND	006	EVIATION DET	PLUS MINUS THI DR	ILLING RÉMA	TIME	DEFIST ALL ENGINATE LAST OIL  3 HOURS	TH OUT NES # CHANGE CORING	72)0 214 #218 TIME	(O#3)86	L B G O F	P2 DSG	HOURS
COLLARS TO TOTAL LESS TOTAL DEPTH	72 X	187.07 187.07 187.32 31.19 72.15 5 72.10	CORRECTION OF THE STATE OF THE	WT. VISC	W.L.	CARE P	MUD RE	CORD HUC PV YP	AND CHE AMOUN	EMICALS	ADDED KIND	DRG	EVIATION OF	PLUS MINUS	ILLING REMA	TIME ARKS:	DEFINALL ENGINES  3 HOURS  Twp.	TH OUT NES # CHANGE CORING	72)0 2  4 #2 8 TIME	0#3/80 HOURE	L B G O F	Pa DDSC TIME	HOURS
COLLARS JY   25 STANDS   1 STANDS	5-0Cs 72 X	157.07 157.32 31.19 172.15 5 72.10	CORRECTION OF THE STATE OF THE	WT. VISCO	W.L.	CARE P	MUD RE	PV YP	DAND CHE AMOUN	Pase:	ADDED KIND	Description of the control of the co	me acc	PLUS MINUS CONTROL DR	REMA Feet No	* gu	Twp.	TH OUT NES # CHANGE CORING	72)0 2 4 #2/8 TIME	HOURE	REAMING	P2 DDSC	HOURS
COLLARS TO TOTAL STANDS TOTAL DEPTH  Company 5000	5-0Cs 72 X	157.07 157.32 31.19 172.15 5 72.10	CORRECTION OF THE STATE OF THE	WT. VISCO	W.L.	CARE P	MUD RE N.H. SAND Field	PV VP	AND CHE AMOUNT A	ease:	AODEO KIND	DEG!	me acc	Well ident.	REMA Per	TIME NRKS:	Twp.	TH OUT NES # CHANGE CORING	72)0 2 4 #2/8 TIME	HOURE	L B G O F	P2 DDSC	HOURS
COLLARS JY-	5-0Cs 72 X	157.07 157.32 31.19 172.15 5 72.10	CORRECTION OF THE STATE OF THE	WT. VISCO	W.L.	CARE P	MUD RE N.H. SAND Field J. Fiel	PV YP	AND CHE AMOUNT AMOUNT TO!	ease day	AODEO KIND	71 a lost ti	me acc	Well ident.	REMA No	* gu	Twp.	TH OUT NES # CHANGE CORING	72)0 2 4 #2/8 TIME	HOURE	REAMING	ale UTG	HOURS
COLLARS JY   25 STANDS   1 STANDS	5-0Cs 72 X	157.07 157.32 31.19 172.15 5 72.10	CORRECTION OF THE STATE OF THE	WT. VISCO	W.L.	CARE P	MUD RE N.H. SAND Field J. Fiel	PV YP	AND CHE AMOUNT AMOUNT TO!	ease day	AODEO KIND	71 a lost ti	me acc	Well ident.	REMA No	* gu	Twp.	TH OUT NES # CHANGE CORING	72)0 2 4 #2/8 TIME	HOURE	REAMING	ale UTG	hours
COLLARS JY   25 STANDS   1 STANDS	5-0Cs 72 X	157.07 157.32 31.19 172.15 5 72.10	CORRECTION OF THE STATE OF THE	WT. VISCO	W.L.	CARE P	MUD RE N.H. SAND Field J. Fiel	PV YP	AND CHE AMOUNT AMOUNT TO!	ease day	AODEO KIND	71 a lost ti	me acc	Well ident.	REMA No	* gu	Twp.	TH OUT NES # CHANGE CORING	72)0 2 4 #2/8 TIME	HOURE	REAMING	ale UTG	hours

DESIGN ESTITA PROCESS REPORT OF THE SELECTION AND TO SELECT SHEET CHAIRS AND AND THE PROCESS OF LOSS SELECT PROCESS OF THE MORNEY THE MORNEY PROCESS OF THE PROCESS OF THE MORNEY PROCESS OF THE PROCESS

TRUE DRILLING LLC

DARY DRIVING REPOR

DIV. OF OL, CAS & MINING

	ME		DEPTH		MORNING TOUR	WT.	RPM	LIMERS	UMP		PAYROLL RECORD	HRS.	YRULNI
TROM	TO	FROM	TO	AMOUNT	FORMATION AND DESCRIPTION OF WORK DONE	1000# 107/15	7 1/2 F4	CHERT	() P	20	DRILLER Whole 1) Ohrman	9	in the second
N.K.	200	17 / 7 / 7	*19 80 80 18 . 18 10		Oute: Waston Pascon	2.15	71-1			10	DERRICKMAN WELL AND AND TOWN	70.	TNN
.01	27 (400)				Circ /2 Work on Fason / 12						MOTORMAN ROOM 18 STATES	1	LH NO
OA I	2300	248			Work on Passey as Ut				=	-	PLOORMAN MILE NULTUS	12	MININ
(X)	027	5910			White am Processor Delays					0,,	FLOORMAN SINGLY P (1) VINS		INN
10 m	OHM				Dela -CD Wes	415	3419	6/204 1	20 17		1 47/2		
	(35/30)				DIE NE				BIT REC	ORD	MFG HC HC CXX TOTAL FTG	1032	
2121	05		6066	110	Orly A Mak		S S AND	BIT NO.	1		SER# 711627 TOTAL HRS.	54	
					T. C.			SIZE	CONTRACTOR STREET	7/17	DET SIZE "/// DEPTH IN 2074 U I IO D E		
					TOTAL WEIGHT OF DRILLING STRING 140,000 LDS.			IADC CO	DE P	D C	DEPTH OUT		
KELL	Y STEE	NO.	PERT	CORRECT	MEASURED (IN) (OUT OF) HOLE J		RRECTIO	PLUS N MINUS		v.   E	DATE LAST OIL CHANGE 174 #2 140 #3 140 LD ILL LP	i) DSD	DST.
COLI	ARS	, E	4770	P.HA-	MUD RECORD	955 USBS86					A Characteristic Contraction of the Contraction of		
E SOMEON STATE	Cof S	254444000000000000000000000000000000000	species/es/es/treitre	453570		Desa	EES DE	PTH DRI	LLING T	ME	HOURS CORING TIME HOURS REAMING	TIME	HOUR
STAN	Charles and Carlotte	254444000000000000000000000000000000000	5578.6	7 TIME W	VISC WAL CARE PH. SAND PV YP AMOUNT KIND	Desa R	(CO DI	CONTRACTOR	VERNI 2000 200	* Wast	VC-COLUCY	TIME O.P.F	SECTION OF THE SECTION
BING	LES LAY	254444000000000000000000000000000000000	5578.6	2	VISC. WALT CARE P.H. SAND PV TP ANOUNT KIND	DEGR	IECO DI		REMAR	KS:	VL.Ow.	arr vna	600 - 1000
BING	LES 14/	254444000000000000000000000000000000000	5578.6 - 1.066	TIME W	VISC. WAT CARE P.H. SAND PV TO ANOUNT KIND			010	APP (	<b>KS</b> : ار به (	V C-0,000	arr	600 - 1000
TOTA	LES [4]	leO	5578.6 - 1.066	7 TIME W	F. VISC. RALLY CARE P.H. SAND PV TP ANOUNT KIND  1 40 576 3 CC+++  3 Pac R  11/41 574 0 CC+ PATTIFFEE		CEE DE	010	PO 59	KS: )a p	17. 6066 1391 PCT B SGOU WI 9.4 PUG	arr vna	400 - 1200
TOTA	LES 47	leO	5578.6 7.066 8016	TIME W	140 576 P.H. SAND PV YP ANOUNT KIND 140 576 S S SC ST S S S S S S S S S S S S S S S	157		010 #10	PO 59	KS: )a p	Tange Falk 1.44 141, 979, 1	arr vna	4 1200
TOTA	LES [4]	leO	5578.6 - 1.066	TIME W	F. VISC. RALLY CARE P.H. SAND PV TP ANOUNT KIND  1 40 576 3 CC+++  3 Pac R  11/41 574 0 CC+ PATTIFFEE		-74	010 #10	PD 59	KS: De p Sar	17. 6066 1391 PCT B SGOU WI 9.4 PUG	arr vna	600 - 17.00 - 270
TOTA TI FROM	LES IN	let)	557%.0 	Trine w	T. VISC. RALL CARE P.H. SAND PV YP ANOUNT KIND  140 576 3 500000000000000000000000000000000000	/ 7   WT:		016	PD 59	KS: De p Sar	Tange Falk 1.44 141, 979, 1	arr one one	600 - 17.00 - 270
TOTAL	LES LAY	let)	557%.0 	Trine w	VISC. RALL CARE P.H. SAND PV YP ANOUNT KIND  140 576 S S S S S S S S S S S S S S S S S S S	/ 7   WT:		016	PD 59	KS: De p Sar	TOMOR FORKLIFF HELD 979-7	arr one one	600 - 17.00 - 270
TOTAL	IDS () LES (4) SS UP LE DEPTH	let)	557%.0 	Trine w	T. VISC. RALL CARE P.H. SAND PV YP ANOUNT KIND  10 576  10 576  10 576  DAY TOUR:  FORMATION AND DESCRIPTION OF WORK DONE  DCG	/ 7   WT:		016	PD 59	KS: De p Sar	TOMO FORKLIFF HIS 97901  PAYROLL RECORD  DRILLER ROLLOTH	arr one one	600 - 1200 - 270
TOTA TI FROM	IDS INTERIOR INTO	let)	557%.0 	Trine w	T. VISC. RALL CARE P.H. SAND PV YP ANOUNT KIND  10 576  10 576  10 576  DAY TOUR:  FORMATION AND DESCRIPTION OF WORK DONE  DCG	/ 7   WT:		016	PD 59	KS: De p Sar	TOMO FOR SLOW WITH ANGE  PAYROLL RECORD  DRILLER ROLLATH  DERRICKMAN JOSE STOPPE	arr one one	600 - 1200 - 270
TOTA TI FROM	IDS INTERIOR INTO	let)	557%.0 	Trine w	VISC. RWAY CARE P.H. SAND PV YP ANOUNT KIND  140 576  14741 574  DAY TOUR  FORMATION AND DESCRIPTION OF WORK DONE  DCG  DCG  DCG  DCG  DCG  DCG  DCG  DC	WT.		Old It Control of Cont	PO 59	KS: De p SHV	TOUR ENRICH WITH BUG.  PAYROLL RECORD  DRILLER ROLLOTH  DERRICKMAN JOSE STOPPE  MOTORMAN ROLLER  MOTORMAN ROLLER	arr one one	600 - 1200 - 270
TOTA TI FROM	LES WY LE DEPTH ME TO	let)	557%.0 	Trine w	VISC. RWAY CARE P.H. SAND PV YP ANOUNT KIND  140 576  1941 574  DAY TOUR  FORMATION AND DESCRIPTION OF WORK DONE  DOLL	WT.		016	PO 59	KS: De p Sar	TO GO BY  231 PAT D SCOU WITH PAGE  TOWNER FORKLIFF HILL TO TO  PAYROLL RECORD  DRILLER ROLLOTH  DERRICKMAN JOH STOPP  MOTORMAN JOHN JOHN JOHN JOHN JOHN JOHN JOHN JOH	HRS.   12   12   12   12   12   12   12   1	1 NOURY 1 NOURY 1 NOURY 1 NO 1 N
TOTAL	LES WY LES TO	let)	5578.6 	AMOUNT	T. VISC. RWAY CARE P.H. SAND PV YP ANOUNT KIND  140 576  1941 574  DAY TOUR  FORMATION AND DESCRIPTION OF WORK DONE  DOLL  DOL	WT.		Old It Control of Cont	PO 59	Con Control of the Co	TOTAL FIG. MAGE MAGE TOTAL FIG.	иня ния 12 12 12 12 12 12 12 12	1 100 1 100
TOTAL	LES WY LE DEPTH ME TO	let)	557%.0 	Trine w	T. VISC. RWAY CARE P.H. SAND PV YP ANOUNT KIND  140 576  14741 574  DAY TOUR  FORMATION AND DESCRIPTION OF WORK DONE  DCG  DCG  DCG  DCG  DCG  DCG  DCG  DC	WT.		Old It Control of Cont	P.H. PR	SHV	TOTAL FTG.  MEG HTT BOSCOU WITH BUGG  TOMAL FOR KILLER KONDAM  DERRICKMAN JOHN STOPP  FLOORMAN JOHN JOHN JOHN JOHN JOHN JOHN JOHN JOH	HRS.   12   12   12   12   12   12   12   1	1 100 1 100
TOTA	LES WY LES TO	let)	5578.6 	AMOUNT	T. VISC. RWAY CARE P.H. SAND PV YP ANOUNT KIND  140 576  1941 574  DAY TOUR  FORMATION AND DESCRIPTION OF WORK DONE  DOLL  DOL	WT.		Olosens a	P.H. PR	CORD	TOTAL FIRM TOTAL FIRM  MEGHT WEST TOTAL FIRM  MEGHT WEST TOTAL FIRM  MEGHT WEST TOTAL FIRM  SER IN TILLET  TOTAL FIRM  TOTAL F	иня ния 12 12 12 12 12 12 12 12	INJURE RV MOS NO.

STANDS IL	64	5908:49	TIME	T. VISC.	[w.L.]	CAKE P.H. SAN	MUE PV YP	AND CHEMIC	ALS ADDED			RE	MARKS:	Toinged Comment-Make Focklift Ho	The second secon	19.44. 15.
SINGLES 12	X	31.99	7'007	5 40				468371	ad Alfraisti			S.C.R.	4-78h	15 1 SPR @16250 - 56 + KIW/95 prov	1340PST SJ	2.WH. 17
TOTAL		6467	11:00 7	1-42				3/2/	HRAI KING	1.5		120:1	In Swi	vel. Table K. Choin Dwks. Comp. Hir Com	os, Hampsiki	of Hend
KELLY UP		27	1:007.	1+44		Mag 4		12015.0	1556/157/Aut	6		Muset	, BOPL	ves Ace, Choke Monifold Greased B	lecks & CI	nwo
TOTAL DEPTH		6440	3/309	9+49				1,2	murtist-			Holde	CONTRACTOR OF THE PERSON NAMED IN	MeetingOnkollingCasingOr	UMAINED	<u>e</u>
TIME TO _	FROM	DEPTH	AMOUNT	EVENING		TION AND DE	SCRIPTIO	N OF WORK	DONE	WT. IN 1000#	RPM	LINERS S.P.	CHARLEST CONTRACTOR	PAYROLL RECORD	HRS.	INJURY
200 300	6440	6499		Drla										DRILLER Wade Volvers	14	10027-1
300 400				Riar	1/2	Urlay-2	ン	enter in a month						DERRICKMAN OUS FOR ANTONIE!	4	Tyl
400 500				Arta	,	<b>.</b>		187						MOTORMAN PROPERTY AND	4	Q at
500 600		6500	160	Dria			×5.			2			是是数	FLOORMAN INTEREST AND THE	4	M. B.
1990 1900	6,10			DA			0(15)							FLOORMAN SPACES KINDERS	4.	
1960 2000		0.000		Deti		0 N				12	5%	46.00	CONTRACTOR CONTRACTOR	the state of the s		
200 300	200	1		Pric								BI	RECORD		ra. 4777	
2000 979		6711	211	0.1					1.16316			BIT NO.	1	SER# 7111/4/7 TOTAL F	STATE OF THE PARTY	
	1.454.2								1-14415			SIZE	72	DEPTH IN 2074 UI 10	DIL	
· <u></u>			100	STEEL STREET,	KINDON DE LA GERMANIA	HT OF BRILLI	A10:00:00:00:00	16 /5 B	LDS			IADC CODE	PPL	DEPTH OUT L B G		
KELLY SIRE	NO.	FEET		MEASURE		OUT OF) HOLE		TALLY	BOARD			N MINUS	77.	SATE LAST OIL CHANGE TO #2 50 #3	PA TODSO	DST
COLLARS ()		4476	1 - 15/4			MICHANICACION NO PROPERTICIONO PROPERTICIO	RECORD	1000000			TVIATIO	PTH DRILLI	IG TIME	7/2 HOURS CORING TIME HOURS REAL	ING TIME	HOURS
TO STANDS	17	133247	TIME V	rt. VISC.		CARE P.H. BAN		AND CHEMIC	ALS ADDED KIND			RÉ	MARKS:	VC.O.M		
Ek BINKES 111	THE STATE OF THE PROPERTY OF T	CO CONTRACTOR CONTRACTOR								B 1885	<b>第 数</b>				CHARLES ON HER	
BINGLES			HO I	2) 5941	444	STATEMENT SETTINGS SERVICES	AND ANDROGRESS CONTROL OF		CONTROL OF THE PROPERTY OF THE		温富 为自然		PERSONAL PROPERTY OF THE PARTY	The second secon		
BINGLES		5711.9	HO L												e de la companya de l	
BINGLES		1/-	HO L	2) 594 <u>1</u> 2, 47/40										#x 623 PST # 665 4 120 120 PS		
BINGLES TOTAL		1/-	HO L		5/11.							Sinn	ens pr	Trend Min		
BINGLES TOTAL TOTAL DEPTH  Company		- 137119 - 13211 - One v	other state	47/40 LLC	9/11	FieldNc	tijust 12	- Ht. Lease	out stated 1			S/VA Well No.	4 #34 20 Se	1, ving M. W. Range 24 County 1 into	State UTo	<u>.</u>
TOTAL DEPTH		- 137119 - 13211 - One v	other state	47/40 LLC	9/11	Field\(\)c	Hayal P	2 d	allt. o folatel 3 \	lost tin	ne aco	S/VA Well No.	4 #34 20 Se	1, ving M. W. Range 24 County 1 into	State UTo	<u>th</u>
TOTAL DEPTH  Company  Rig No.	. This is	- 157119 - 15711 - Onev	day on	1-1-C well, _	Silvi.	day under	surface,	_3 d	day without a	ost tir	ne ac	S/NO. Well No.	con pr d #34 30 Se ulative	C.30 Twp.10° Range24° County Dinty Time: Drilling 47' hours Coring hou	rs Reaming	hours
TOTAL DEPTH  Company  Rig No.	. This is	- 157119 - 15711 - Onev	day on	1-1-C well, _	Silvi.	day under	surface,	_3 d	day without a	ost tir	ne ac	S/NO. Well No.	con pr d #34 30 Se ulative	C.30 Twp.10° Range24° County Dinty Time: Drilling 47' hours Coring hou	rs Reaming	hours
TOTAL DEPTH	. This is	- 157119 - 15711 - Onev	day on	1-1-C well, _	<i>€</i> ///	day under since last JSE BACK	surface, cut OF YELL	Total T LOW SHE	TAY WITHOUT A	ost tir	ne acc Date E	Well No.	whay se ulative 'U'h	C.30 Twp.10° Range24° County Dinty Time: Drilling 47' hours Coring hou	rs Reaming	hours
TOTAL DEPTH  Company  Rig No.	. This is	- 157119 - 15711 - Onev	day on	1-1-C well, _	<i>€</i> ///	day under since last JSE BACK	surface, cut OF YELL	Total T LOW SHE	day without a	ost tir	ne acc Date E	Well No.	whay se ulative 'U'h	C.30 Twp.10° Range24° County Dinty Time: Drilling 47' hours Coring hou	rs Reaming	hours
SINGLES TOTAL  TOTAL DEPTH  Company  Rig No.	. This is	- 157119 - 15711 - Onev	day on	1-1-C well, _	<i>€</i> ///	day under since last JSE BACK	surface, cut OF YELL	Total T LOW SHE	TAY WITHOUT A	ost tir	ne acc Date E	Well No.	whay se ulative 'U'h	C.30 Twp.10° Range24° County Dinty Time: Drilling 47' hours Coring hou	rs Reaming	hours pourushea
TOTAL DEPTH  Company Supering Company Su	This is ake [4]		atino.  day on  No.	well, -	97.6.	day under since last USE BACK MAKE S	surface, cut OF YELL URE A	d Total T LOW SHE	I MER AND THE FOR CALC	ost tir	ne aci Date F IONS AN	Well No.	Ulative CHES	Time: Drilling 67% hours Coring hours 2007	rs Reaming	hours 
TOTAL DEPTH  Company Survey  Rig No. 3  Prilling Line: M	This is ake (1) f	- (3711.9) 15211 - Opey	day on No.	well,	CT.M.	since last USE BACK MAKE S	surface, cut OF YELL URE A	Total I LOW SHE	TAPE ALCOHOLIS	OST TIP	ne accominate Figure 1 (1) AN	Well No.	Ulative CHES	C.30 Twp.10° Range24° County Dinty Time: Drilling 47' hours Coring hou	rs Reaming	hours polifiere
TOTAL DEPTH  Company Supering Company Su	This is ake [4] !	JOSE II	day on No.	well, Lines Is	CT.M.	since last USE BACK MAKE S	surface, cut OF YELL URE A	Total I LOW SHE	TAPE ALCOHOLIS	OST TIP	ne accominate Figure 1 (1) AN	Well No.	Ulative CHES	Time: Drilling 47/2 hours Coring hour, 2007 THIS REPORT IS FULL AND ALLS MINORAL SHOWARDS ALES MACHINES AND ALES AND ALE	rs Reaming	hours

TIR	1E		DEPTH		MORNING TOUR	WT.	RPM	41	PUMP		PAYROLL RECORD		
FROM	10	FROM	TO	AMOUNT	FORMATION AND DESCRIPTION OF WORK DONE	10000		LINERS	8.P.M.	PACUS		HRS.	YAULNI
)+151 1743		an in			$Uv_{m}$		5/3/			مازا روز	DRILLER W.ZO.OV.	1	MVN
14. (2. )	2 8 4 5		4594	186	DAG ANN		74,	1.47,49	31.8	特定	MOTORMAN 12 MANUAL IN GOOD	場	RHAIC
Company Common	05:00		7599	17010		73 E 163						0	SALA
462					Chit well tracer met all						PLOORMAN CONTRACTOR OF PROPERTY OF THE PROPERT	15%	21 V 8870
4.41	252/652	45501			Dely Control	12	推	549	11/6	1055H	1 27.1/a	1	100000
	123-17				Drig 15				BIT	RECORD		771	
			44.05	216	hrla JUISTILL			BIT NO	).	1	JET SIZE CALLE TOTAL HRS.		
			1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		+172.			SIZE		7/1	DEPTH IN 12374 U I IO D L		
					TOTAL WEIGHT OF DRILLING STRING   2 3 LBS.			IADC C	ODE	906	DEPTH OUT L B G O R		
KELLY	elite	NO.	ં પાન	CORRECT	E MEASURED (IN) (OUT OF) HOLE MEASUREMENT TALLY SDARD	-	RECTIO	-		P7.	DATE LAST OIL CHANGE 150 #2 11/ #3/ CPU LPS	DSD	DST
COLL	Palatinis Participa	31.00	447.07	BIW			CES DE	PTH D	RILLING	TIME	6 HOURS CORING TIME HOURS REAMING T	ME	HOURE
STANI	100 100 100 100 100 100 100 100 100 100	46	42860	A Commission of the Commission	T. VISC. WILL CARE P.H. SAND PV YP AMOUNT RIND						Super 71	ruse	290
BINGL		¥	31.97	17-2 9 4	1 141 D- 12 12 COUSTO CC							wie.	10 10 P. S. SOWER - 15 A SO
LES	<b>计算的设计</b>		78	1382 F. 2	- 37 575 Part Harman Transfer for			1/4			371 PSC 64740 M7 9 PRC.	Cina	n 70
	DEPTH		4705					41			KIN FOUKLIFT HER CHS-3-		Constant Constant
TIM	CHOLD CACEL SUBSEC		DEPTH		DAY TOUR	WT.		Ī	PUMP	7			Property of the second
ROM	TO_	FROM	то	AMOUNT	FORMATION AND DESCRIPTION OF WORK DONE	IN 1000#		NA PARAMETER DESIGNATION	9.P.M.	PRESS	PAYROLL RECORD	HRS.	INJURY
40	gen	4805			Drla	15	5994	32×9	120	17/1905	DRILLER RODVATA	12	RVIA
167 200	90				00)3			1000			DERRICKMAN JOHF STONE	12	05 NO
30	Marie Marie				200						MOTORMAN KOLD HELLET	12	RHIVE
ייבטף	1100	•			DUS COM ETT.						FLOORMAN JOHN VI, SIMPENOT	16	10500
Ne	1200		5204		0-)	12/1	55/21	6/2×9	120	45/60		12	AW 140
200	1000		, 207		Right Not 1 1/2	1100	Ailes	- 2 N		RECORD		Z31	1
مناة	700		5265	1 107 107	Drh/2, Kurde, 12			BIT NO	GENERAL POLICE		SER# DII687 TOTAL HEE 4	0/2	
		Texas (			7 5 1			SIZE		748	JET SIZE GTO D CUT. STRUC		
					TOTAL WEIGHT OF DRILLING STRING / 23, 000 LOS.	distin		IADC C	ODE	PIDIC	DEPTH IN 2034   U   O D   L     DEPTH OUT   L B G O R		
KELLY	NZE	NO.	FEET 40	DRILLPIPE	MEASURED (IN) (OUT OF) HOLE	<b>阿斯斯岛</b> 维	RECTIO	PLUS			IST ALL ENGINES #1/62 #2/28 #3/28 LPI/04LP37	D DSD	DST

STANDS I	-K-DE	4707.3	DIF/I				MI	UD AND CHE			20 5		RILLING T	IME	/ HO	URS   CORII	NG TIME	Marin San Branches Branch	REAMING T	IME I O J	HOURI
SINGLES HE	13/	30,64	CONTRACTOR STATE	7 30	W.L. CAI	SE P.H. BA	ND PV Y	12/ 7	T KIND	<i>-   ''</i>	2 51	70 .₩)	SPU A	49	14 61	acrount	H-Matic Fr 9,2000 N/35		1114-87 ENTED: VI	1 Folder	04,-13
2 TOTAL	1.	F21-5		2 35				3/29	1. 1	7		127	SER OL	112 570	4-61	AKE WIS	7.4 now/40	n OLT	CU SCHURE	10. V	15
KELLY UP		1	1:3 - 7.	4+41		San Par		12115 4	11× /157/8	//79		12	10: 1 Ing	לעולא	elita	D- KCh	Mini Bulka Co	· O # (	COMOS 1	maz 4	DAN-
TOTAL DEPTH		5265	3:00 7.	442								H	14504	top	Medi	aca On W	King Aho	JP JOH	ortholo	, T	MANY II-
TIME FROM TO	FROM	DEPTH TO	AMOUNT		G TOUR	ON AND D	ESCRIPTI	ON OF WO	RK DONE	WT. IN 1000#	RPM	IF 1	PUMP   B.P.M.   PF	ESS	PAYROL	LRECORD			٧	HRS.	INJUR
700 300	5245	1		Dela											DRILLE	alle	Dohos			Tu l	altik.
700 400				Orla											DERRIC	KMAN RO	en Itamic	bil exact		T Li	PALIC
400 500				17-13		125 d 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0.1	, N								+ highers			TU	p.A
200 900		137/	706		Yz. (1)				<u> </u>			n de Historia			FLOOR	AN SING	-ne Nula	J.C.		L/	N
00 1900			10000	12 July	Icon H	3400	V.L	Drie						- 1115	FLOOR	IAN				4	
2000	55.7	1		17,19	15. 40	<u> </u>				15	55/4	64.8	MANUSCAN DE LA COMP	द्धा	2		1 2 2 1				
gen woo				Dolo	14.9								BIT RE	CORD	100000	MFG HHC	# SOC 3	Control of the last	SECRETARIO SECUCIONI DE SOCIO	754	
100000		5799	217	<del>                                      </del>					*147.K			BIT NO	British Committee	<i>7/a</i>		JET SIZE	Lotse	D IC	UT, STRUC	1/7	
	1 4 miles				AL WEIGHT			wa sHa	1001	`	5,200	IADC C	CHARLEST WAST	SERVICEN PRODUCE		DEPTH IN	2634	Ų L	O D L		
KELLY SIZE	E NO.	PERT		PE MEABURI	ED (IN) (QU	All the second of the new White	Harry John Stranger		(XZ, Z.A.) FBI			PLUB	STATE AND STREET, SALES	Charles Strate	IST ALL	DEPTH OU	#164 #2130			DSD	DST
COLLARS VI	222	487.0		MEASURE	h-rate and	MUD	RECORD		LY BOARD		EVIATIO	N MINU	RILLING T		3,455,45,756,554	JRS CORIN		等级支持的研究的	SANTE SERVICE AND	Part of the same	
STANDS	T7	5306.8	A Shirt monorman invests	m. VIEC	L. CA	E P.H. BAI		JO AND CHE	MICALS ADDED	-			Carlotter Control		V C C		IG TIME	HOURS	REAMING T	ME	HOURS
SINGLES	,		nin Santonionionionio Sympto	10 45																	
TOTAL IV	•	1.777	107° 4	1 1 Whi																20 m2	
KELLY UP		(3)									登	4	SPRI	85	14435	PIPST A	5604 811	9.4 PF	% -		
TOTAL DEPTH		1784										5	Im a	20	Tone	39					
Company <u>Suc</u>	· · · · · · · · · · · · · · · · · · ·	and the second	to 1 I may	11.1		Fields		Suitle	aco i literation	4-1		Wali	No Feel	34	2.					5 400	
5)and	.,	$I^{\prime\prime}$						<u> </u>					- <del> </del>	_ 36	·	1.wp. <u>2</u>	Kange <u>⊸∞</u> Col	unty	≟‱_State	\$ \$ \$ m	
Rig No.																	12 hours Co	iring	hours Re	aming_	hou
Drilling Line: M	\ake		No.	Lines ::	<u>&gt;</u> T.M. s	ince last	cut	Tota	ol T.M		Date ↓	hilli	Air J	2111	, 20	<u> </u>	THIS REPO	T IS FULL	AND COMPL	ETE.	
									HEET FOR C								0000-	())	141	то	DLPUSHE
					N	TARE S	OUKE A	arr Bri	ANKS ARE	FILLED	, AN	ID C	DRRECT								
uterau mani. <del>T</del> a	KE GUM	ereik bei	word on	risa urig	er ic yn	RESCON	a con n	id ecerta	EYCH EHL CLI	e woel e	FO 4 60	ARDET	ANTE CONTR	CIAN Z	His WEN	el ancere	C ANN MODER				
Martin (\$100) (Tricklet \$20)	4 254 8.81	Ger Rossies.	. SETOM .	exicu ii	YALFICY:	aru ad a	Dust Sen	Louise u t	See les de la constant	192"	F 48.F-		<b>⊗€</b> ''		1	ens sinks	77	<b>A86</b>		Ţ	225
						200												25025	The South	PARKET.	2000

DIV. OF OIL, GAS & MININ

FROM	1E TO	FROM	DEPTH TO	AMOUNT	MORNING TOUR  FORMATION AND DESCRIPTION OF WORK DONE	WT.	RPM -	LINERS	PUMP	PAYROLL RECORD	HRS.	YAUCHI
(5.94	. 14.0	1			Pur Karan Dr. II 13 Pr					DRILLER Windle Upham	17	4010
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1 7510				N 7					DERRICKMAN SOLLAND STATE STATE STATE	9	21
100	102				MAY TO THE TOTAL OF THE TOTAL O					MOTORMAN Rom Hankinson	17	
00	100				" " Oto					PLOORMAN MITCO NY 1755	S	MY N
200	1000 m				P. K-UN OF YOTHOGALL ROT ROTHER	1/2				PLOORMAN ALLANDE Allyhouse		V. Lan.
39	2417				FILE SOUNT Come at all 10					MFGING TOTAL FIG	-	
(00)	2500				Doll Flact Connection				BIT RECORD	SER # ZULL 97	CF.	502-00-26 SA
					On the survey of Source and 4 to Orill	4.8:40		BIT NO.	77/1	JET SIZE LAND TOTAL HRS.  D CUT. STRUC	9	
					YOTAL WEIGHT OF DRILLING STRING LES.			IADC CO	MICHAEL SPINS BARN PC	DEPTH IN 2024 U I O D L L B. G. O R		
KELLY	PIRE	NO.	PERT	DRILLPIP	MEASURED (IN) (OUT OF) HOLE	Cale Sar		PLUS	CONTRACTOR STREET, P. WILL SEC.	IST ALL ENGINES #120 #2/ #370 LP1 // LP3	6 DSD	DST.
COLL			487.0		MEASUREMENT TALLY BOARD  MUD. RECORD	-	VIATION ED DEPT	THE PROPERTY.	LLING TIME			
E STAND	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	1.	1867	TIME WI	MUD AND CHEMICALS ADDED			2000 3000 Bill	REMARKS:	HOURS   CORING TIME HOURS   REAMING T	IME	HOURE
B BINGL	E. 4/2	× 1	30.74									
TOTAL			N'THA									
Y KELLY	UP		4					CONTRACTOR OF THE CONTRACTOR		of the man countries of		to de la companya de Companya de la companya de la compa
TOTAL	DEPTH		7034					151	n on	PHICK AND THE FRAKE FR T	Mound	
TIM			DEPTH		DAY TOUR	WT.	RPM _		PUMP	PAYROLL RECORD	HRS.	INJURY
FROM	70	FROM	то	AMOUNT	FORMATION AND DESCRIPTION OF WORK DONE	1000#		LINERS I	HATE PARTY	DRILLER POLITA	17	DI NO
710	400	208			1019 CM 12 (1039-2080) 1119/2					DERRICKMAN OF STORE	12	DE NO
为1650月的185000000000000000000000000000000000000	OFF		2163		Moladka Consentar					MOTORMAN ROLD HOUSE	12	RHNO
CPS W		MONEY CONTRACTOR OF THE PERSON	_, _,		Mole of the Charles					FLOORMAN TO ha D. SIDEFUADE	17	705N
GO OF THE	1000									FLOORMAN James Manly	17	COVE MAI
4000 Cy 00.00	1000				000	12 Mariahir	<b>洲州中 影</b> 监 中的					
900 900 1000 1100	1000				Orla to HE	14/8	利。	Yex R	20 85,05	)		11
4000 Cy 00.00	1000				Drid TO REPORT	14/8	×4 6	Vex (2)	BIT RECORD	MEGHT WEAL TOTAL FTG. (	20	
900 900 1000 1100	1000		2654		Orla Ve Rig Service Yz	14/8	% 6	BIT NO.	BIT RECORD	MEGHTE 4.506 TOTAL FTG. ( SER # 111/687 TOTAL HRS.	7	
900 900 1000 1100	1000		2654		Orla Service Ya  Total Weight of Drilling String/00 000 LBS.	14/8			BIT RECORD	MFG/H7	7   	

	23	2127.7 Z TIME	WT. VINC. W.L. CAKE P.H. BA	MUD AND CHEMICALS ADDED	TO SOME IN THE STREET	2 20	County and Description of The		I hours   coming time Hours   reaming ti	179	HOUR
SINGLES 12				15 also EZ-MUL	Z°	ZS	76 14B	of Cop	Lines, And Chote Manifell, Worked Floors	-Kel	. Val.
TOTAL		2654		10/16/7/06			VHO.	11 In Sou	ivel Table Richain, Dwks, Comp. Air Comps.	LAMAS!	PUUL
KELLY UP				- 10 4h 157 Cours	f.		Orea	sed Bloc	Ksekroum		0, W+
TOTAL DEPTH		2654		15 213 130 138			Held	Sagathi 1	Unaliva Du Draina HIKTA Service,		
TIME		DEPTH	EVENING TOUR		WT.	RPM	PU		PAYROLL RECORD	HRS.	וטנאו
FROM TO	7 654	TO AMOUNT	- V A i	DESCRIPTION OF WORK DONE	1000#		LINERS S.P	d==   <i>d</i> 11433	DRILLERWhole Usham	1.1	ART OF
220 HOW	26.77		Durvey Zullia	_					DERRICKMANJUST o Notanal		ert :
100 200			0013	- 1		A SECTION OF			MOTORMAN Ren Hankingon	11	
-20 700		2980 946	1000						FLOORMAN MICHAELING	U	10.00
7== 19=0	2-12/1	1111 110	Det 3		15	54%	6XA 17	199	FLOORMAN Shows & Black	L.	
Jac 30 mg			Drie 00 %					188			es terms
, x 5 10 10 10 10 10 10 10 10 10 10 10 10 10			Dek.	var 16			ı	BIT RECORD	MEGHT IK SOLD TOTAL FTG.		
100 200		195 B 195	several with the annual of Bears are not recommended to the Salar Annual States	-100 Y			BIT NO.		SER# 711165 TOTAL HRS.	100	1414
				not Te	4.		SIZE	73/4	JET SIZE (as 14) D CUT. STRUC.  DEPTH IN DOTEST: U I I O I D I L	177	
		March March	TOTAL WEIGHT OF DRILL	LING STRING (A) (100) LBS.			IADC CODE	109	DEPTH OUT L B G O R		
KELLY SIZE	NO.		PE MEASURED (IN) (OUT OF) HOL	E TALLY BOARD	COR	RECTIO	PLUB N MINUS	- m.	STALL ENGINES #12 #2 44 #374 LPICO LPS	DSD	DS
COLLARS (	ău,	H8707 -BINA	MUD	RECORD	DEGR	EVIATIO	TH DRILL		HOURS CORING TIME HOURS REAMING TH	10.000000	HOU
STANDS 114	31	7931 TIME	WT. VISC. WIL. CAKE P.H. SA	NUD AND CHEMICALS ADDED			PRESENT STREET, WESSELL	SUPPLEMENTAL SERVICE	10.000		
BINGLES TO	~	"PASE			Carlot College						
TOTAL		3419		The second secon				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
2/9/4/3/2/03/5/2/2/3/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/	2000年100日	52							A STATE OF THE STA		
CONTRACTOR SECURITIONS - PROBLEMS	<b>经产品产</b>	A PARAMETER STATE OF THE PARAMETER OF TH	PROTECTION AND REPORT AND ADDRESS OF THE PROPERTY ADDR						The state of the s		
LESS KELLY UP		7.W1Q					THE REAL PROPERTY AND ADDRESS OF THE PERSONS ASSESSED.	CON	The state of the s		是是是他们的特别
LESS KELLY UP		7.W1Q	LLC Siddle	Lavel Part Leaves the 1/16-17			THE REAL PROPERTY AND ADDRESS OF THE PERSONS ASSESSED.	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED I		, q-	ı
TOTAL DEPTH	, <del>.</del>	Oppers b.	Field!	Live Cost lesse 2+ UCC-12	4		_ Well No	Feel #3 Se	C30 Twp. 168 Range 24E County And State	jT,	h,
TOTAL DEPTH	This is	Operation day or	n well, day under	r surface, day without a	lost tir	me acc	_ Well No	mulative	Time: Drilling Range 24 County / State		<u>h</u>
TOTAL DEPTH	This is	Operation day or	well, day under	r surface, day without a	lost tir	ne ac	Well No	mulative	Time: Drilling Range 24 County / State	iming_	<u>_</u> h
TOTAL DEPTH	This is	Operation day or	n well, day under Lines 1/2 T.M. since last USE BACK	r surface, day without a t cut Total T.M COF YELLOW SHEET FOR CAL	lost tir	ne aci Date IONS	Well Notice of the Alexander of the Alex	mulative	Time: Drilling Range 24 County / State	iming_ tte.	<u> </u> ho
TOTAL DEPTH	This is	Operation day or	n well, day under Lines 1/2 T.M. since last USE BACK	r surface, day without a	lost tir	ne aci Date IONS	Well Notice of the Alexander of the Alex	mulative	Time: Drilling Range 24 County / State	iming_ tte.	<u> </u> ho
TOTAL DEPTH	This is	Operation day or	n well, day under Lines 1/2 T.M. since last USE BACK	r surface, day without a t cut Total T.M COF YELLOW SHEET FOR CAL	lost tir	ne aci Date IONS	Well Notice of the Alexander of the Alex	mulative	Time: Drilling Range 24 County / State	iming_ tte.	ho DLFUSH
TOTAL DEPTH  Company  Rig No. 7.7.  Orilling Line: Ma	This is	(2000) day or 1975 No.	n well, day under LinesT.M. since last USE BACK MAKE \$	r surface, day without a  t cut Total T.M C OF YELLOW SHEET FOR CAL  SURE ALL BLANKS ARE F	lost tir	Date I	Well Notice of the All And Ske	mulative TCHES RECT	Time: Drilling hours Coring hours Real THIS REPORT IS FULL AND COMPLI	iming_ tte.	<u> </u> ho
TOTAL DEPTH Company State ig No. 177 rilling Line: Ma	This is ske	Oppus but day or 177 No.	well, day under LinesT.M. since last USE BACK MAKE !	r surface, day without a  t cut Total T.M C OF YELLOW SHEET FOR CAL  SURE ALL BLANKS ARE F	CULAT	Date I	Well No	mulative TCHES RECT	Time: Drilling Range 24 County / State	iming_ tte.	ho

DRILLER M	UST FILL	IN EACH	BPACE	ORT OF A	HICH IS APPLICABLE TO WORK PERFORMED DURING HIS TOURNY INJURY TO AN EMPLOYEE ON HIS TOUR. EACH EMPLOYEE WITHOUT FAIL .	MUST 619	N PA		ORD ON T		DAILY DRILL LEC. HOURS REAMING	ING (	REPORT 549
TIM			DEPTH		MORNING TOUR	W.	RPM	A THE MANAGEMENT	P.M. PRESS	PAYROLL RECORD		HRS.	INJURY
PROM 1000	11 6 C	FROM	то	AMOUNT	FORMATION AND DESCRIPTION OF WORK DONE	1000#		EINEAD BA		DRILLER VI SANO VASIL	arn .	1.1	1.1 164.
1100	1250	trought in			KULT					DERRICKMAN TO THE TOTAL		19	2/11/11/0
THE	1661				RURT		Act of			MOTORMAN Remail	KANGA MUMUMUM MENUNGANAN KAMPANAN PERUNGAN	7	XH NO
STATE OF STREET	300				RURT				_	FLOORMAN NA KE NA	Philadelphia Ingles (Inggraphia)	18	MAINE
700	1,022				MONE HO HOW					FLOORMAN CARREL NI	Note	9	SNIK
200	y its	are se			Niogie - ROTEOT								
400	to the last				N HIL WEST				BIT RECORD		TOTAL FTG.		
T (P)	1.34 12.4				1 - de :- de			BIT NO.		SER #	TOTAL HRS.		
					**************************************			SIZE		JET SIZE DEPTH IN	D CUT. STRUC.		
					TOTAL WEIGHT OF DRILLING STRING LES			IADC COD	E	DEPTH OUT	L B G O R		
KELLY	9126	NO.	PILIT		E MEASURED (IN) (OUT OF) HOLE MEASUREMENT TALLY BOARD	CON	ECTIO	PLUP N MINUS	PT.	DATE LAST OIL CHANGE	74 #3/ 2 CP1 20 LP3	ODSD	DST
COLL	RS				MUD RECORD	DE	VIATIO	N S	LING TIME	HOURS CORING TIME	HOURS REAMING T	ME	HOURS
TO STANI	)8			TIME W	T VISC. W.L. CAKE P.H. SAND PV VP AMOUNT KIND			R	EMARKS:				
BINGL	ES												
TOTAL						The state of the s			en Mederical English Managaran Albanian	er og en er en En en			
KELLY	SUP		1.37a.C									14 mm 22	
TOTAL	DEPTH					法海 医脂腺		5/4	con	Naphle-up for	KIH-村运统5.	2	en and a series
TIM	E TO	FROM	DEPTH	AMOUNT	DAY TOUR FORMATION AND DESCRIPTION OF WORK DONE	WT. IN 1000#	7 R	LINERS S.	IMP P.M. PRESS	PAYROLL RECORD		HRS.	INJURY
Lev	700				Vivole Vo					DRILLER KONLUOTH	Aller Steller	12	KV NO
7000	200				Nice to		254/24		200.2	DERRICKHAN JOHE STONE		12	A5 NO
000	gu"				Vinele Vo		Supplied to			MOTORMAN KODHEILEE		12	KHNO
910	1000				N'exterior of City					FLOORMAN JOHN D. SUDE	TNOT	12	IOS 110
10	1100				Whole Wp -000					FLOORMAN Tames Main	W	12	IM NO
1100	1200				Test Kelives						The Committee of the Co		1
12000	100				Test BORD				BIT RECORD		TOTAL FTG.		
700	1700	78 C. S. S.			TELF BOPIL			BIT NO.		SER II	TOTAL HRS.	J. British	
7			V T T		13.			SIZE		JET SIZE  DEPTH IN	D CUT. STRUC. U I  O   D   L		
			7		TOTAL WEIGHT OF DRILLING STRING LBS			IADC COD	E	DEPTH OUT	L B G O R		
KELLY	, sizk	NO.	PERTY	DRILLPIP	E MEASURED (IN) (OUT OF) HOLE	CON	ECTIO	PLUS N MINUS	-	DATE LAST OIL CHANGE 1 #2	62 #362 LP137 LP3-	O DSD	DST

COLEANS 12 12-11C	5487.07 BHA-	MUD RECORD	DEGREES DEPTI			CORING TIME	HOURS REAMING T	TIME HOU
STANDS	TIME WT. VISC. W.L.	CAKE P.H. SAND PV YP AMOUNT KIND				HM 872		
SINGLES				receive	rd 7000 6	als. Fuel		
TOTAL							Tarana ya Casa ili	
KELLY UP				<u> </u>		Superior .		
TOTAL DEPTH				Held Se	itetu/VIP.etiv	40 NIABLE 110		
TIME ROM TO FROM	TO AMOUNT FORM	IR	IN RPH L	PUMP INERS S.P.M. PR	PAYROLL REC	ORD		ULNI ,ERH
300	Test B	OPIS & Casing			DRILLER W	ide. Volsann		4
de the	Test Las	sire 12. Nipole Up		100	DERRICKMAN	Justin Note	nd	14
7 500	Winnle	1107			MOTORMAN	Room Hank.	The Comment	4
na fre	HAOK W.	o'ChokeLives			FLOORMAN	Mile NUM	14,	14
a 42 - 75	Vincely 11st	Long Oldres			FLOORMAN (	Shorne Will	$\lambda \mathcal{J}$ 5	14
	N	- 62 W - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -						
	11			BIT REC	CORD MFG	ACCURATION OF THE PROPERTY OF	TOTAL FTG.	\$
		NO SINA		IT NO.	let e	DEFECT TRANSPORTED TO THE PROPERTY OF THE PROP	D CUT, STRUC	- B
	Pick-u	BHA		IZE 7	DEPT	CONTRACTOR OF THE PROPERTY OF	UIIOIDIL	
200	250 (EDSG1)2550/99643000 (Edges MOSTHOODINGSOATH) DONNERSOOTHIOLEGIAN SAND CANADA	GHT OF DRILLING STRING LBS.	tione prosperior applicate providence perior	Special age of ellipse special pages.	MODELLE MARTINES ACCORDES DIVININA CONTRA PRIMISES DE LA CONTRA DEL CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA DE	н оит	L B G O R	
KELLY SIZE NO.	FEET DRILLPIPE MEASURED (IN) CORRECT MEASUREMENT	TALLY BOARD	CORRECTION	PLUB MINUS F	T. DATE LAST OIL	ES #1 #2 CHANGE	#3 LP: LP:	DSD DS
	S 15707 - BLA	TALLY BOARD  MUD RECORD		KINUS F		ES #1 #2 CHANGE CORING TIME	#3 LP1 LP2 HOURS REAMING T	Marian San San San San San San San San San S
	CORRECT MEASUREMENT	TALLY BOARD	CORRECTION	KINUS F	ME HOURS			
COLLARS CH. 1500	GORRECT MEASUREMENT	TALLY BOARD  MUD RECORD  MUD AND CHEMICALS ADDED	CORRECTION	DRILLING-T	ME HOURS			
COLLARS CH. 1500	GORRECT MEASUREMENT	TALLY BOARD  MUD RECORD  MUD AND CHEMICALS ADDED	CORRECTION	DRILLING-T	ME HOURS			
COLLARS CY. 1500 STANDS III/	GORRECT MEASUREMENT	TALLY BOARD  MUD RECORD  MUD AND CHEMICALS ADDED	CORRECTION	DRILLING-TI	ME HOURS (	CORING TIME		
COLLARS (// 1500) STANDS III SINGLES 4/ TOTAL RELLY UP TOTAL DEPTH	CORRECT MEABUREMENT  S WT. VIBC. W.L.	TALLY BOARD  MUD RECORD  MUD AND CHEMICALS ADDED  CAKE P.H. SAND PV VP AMOUNT  KIND	CORRECTION DEVIATION DEGREES DEPTY	DRILLING-TI REMAR	KS:	CORING TIME	HOURS REAMING T	IME HOU
COLLARS (// 1500) STANDS III SINGLES 4/ TOTAL RELLY UP TOTAL DEPTH	CORRECT MEABUREMENT  S WT. VIBC. W.L.	TALLY BOARD  MUD RECORD  MUD AND CHEMICALS ADDED	CORRECTION DEVIATION DEGREES DEPTY	DRILLING-TI REMAR	KS:	CORING TIME	HOURS REAMING T	IME HOU
COLLARS (// 1500 STANDS III SINGLES (// 1500 TOTAL LESS UP TOTAL DEPTH	CORRECT MEABUREMENT  S NATO PARA  TIME WY. VIAC. W.L.	TALLY BOARD  MUD RECORD  MUD AND CHEMICALS ADDED  CAKE P.H. SAND PV VP ANOUNT KIND  Field A TELL AND THE LEASE TO THE LABORITY AND THE L	CORRECTION DEVIATION DEGREE DEFT	REMAR  S/IM CYT  Well No.	KS:	Range Cou	Unity	TAL
COLLARS (// 1500) STANDS (// 1500) SINGLES (// 1500) TOTAL RELLY UP TOTAL DEPTH OMPANY SINGLES  G NO. 1 This is	TIME WT. VIAC. W.L.	TALLY BOARD  MUD RECORD  MUD AND CHEMICALS ADDED  KIND  FIELD  FIELD  AND FV VP AMOUNT  FIELD  AND FV VP AMOUNT  AND FV VP AMOUNT  FIELD  AND FV VP AMOUNT  KIND  AND FV VP AM	CORRECTION DEVIATION DEGREES DEPTH	REMAR  Well No.	KS:  Sec. Twp.	CORING TIME  The state of the s	unty hours Reaming T	TAL HOU
COLLARS (// 1500) STANDS (// 1500) SINGLES (// 1500) TOTAL RELLY UP TOTAL DEPTH OMPANY SINGLES  G NO. 1 This is	CORRECT MEABUREMENT  S NO. Lines 12 T.M.	TALLY BOARD  MUD RECORD  MUD AND CHEMICALS ADDED  KIND  FIELD  FIELD  As under surface, day without a  A. since last cut Total T.M	CORRECTION DEVIATION DESCRIPTION DESCRIPTION DISTRIBUTION DISTRIBUTION DISTRIBUTION Distribution Date 1-1-1-1	Well No.	Sec. Twp.	CORING TIME  The state of the s	Unity	TAL HOU
COLLARS (// 1500) STANDS (// 1500) SINGLES (// 1500) TOTAL RELLY UP TOTAL DEPTH OMPANY SINGLES  G NO. 1 This is	CORRECT MEABUREMENT  S NO. Lines 12 T.M.	FIELD SATE TOTAL TOTAL TOTAL SACK OF YELLOW SHEET FOR CALL	CONRECTION  DEVIATION  DEVIATION  DEVIATION  DEVIATION  DATE  DATE  CULATIONS A	Well No.	Sec. Twp./ ive Time: Drilling	CORING TIME  The state of the s	unty hours Reaming T	TAL HOU
COLLARS (// 1500) STANDS (// 1500) SINGLES (// 1500) TOTAL RELLY UP TOTAL DEPTH OMPANY SINGLES  G NO. 1 This is	CORRECT MEABUREMENT  S NO. Lines 12 T.M.	TALLY BOARD  MUD RECORD  MUD AND CHEMICALS ADDED  KIND  FIELD  FIELD  As under surface, day without a  A. since last cut Total T.M	CONRECTION  DEVIATION  DEVIATION  DEVIATION  DEVIATION  DATE  DATE  CULATIONS A	Well No.	Sec. Twp./ ive Time: Drilling	CORING TIME  The state of the s	unty hours Reaming T	Early house
COLLARS (// 1500) STANDS (// 1500) SINGLES (// 1500) TOTAL RELLY UP TOTAL DEPTH OMPANY SINGLES  G NO. 1 This is	CORRECT MEABUREMENT  S NO. Lines 12 T.M.	FIELD SATE TOTAL TOTAL TOTAL SACK OF YELLOW SHEET FOR CALL	CONRECTION  DEVIATION  DEVIATION  DEVIATION  DEVIATION  DATE  DATE  CULATIONS A	Well No.	Sec. Twp./ ive Time: Drilling	CORING TIME  The state of the s	unty hours Reaming T	TIME HOU
COLLARS (// 1500 STANDS III SINGLES 4/ TOTAL KELLY UP TOTAL DEPTH OMPANY STANDS Illing Line: Make	CORRECT MEASUREMENT  STATE WY. VISC. W.L.  TIME WY. VISC. W.L.  Aday on well,  No. Lines 127 T.M.	Field Total T.M.  USE BACK OF YELLOW SHEET FOR CALL  MAKE SURE ALL BLANKS ARE F	CONRECTION DEVIATION DESCRIPTION DESCRIPTION DESCRIPTION Description Date 3-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Well No.	Sec. Twp./	Range Cou	unty State  Pring hours Read Complete	TIME HOU
COLLARS (// 1500 STANDS III SINGLES 4/ TOTAL KELLY UP TOTAL DEPTH OMPANY STANDS Illing Line: Make	CORRECT MEASUREMENT  SHAT  TIME WY VISC. W.L.  Aday on well,  No. Lines 127 T.M.  STELE BENDERA OF MAR INTERNAL SO CHI STREET RETORN AUTION 12 MARTIN	FIELD SATE TOTAL TOTAL TOTAL SACK OF YELLOW SHEET FOR CALL	CONRECTION DEVIATION DESCRIPTION DESCRIPTION DESCRIPTION Description Date 3-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Well No.	Sec. Twp./	Range Countries Report	unty State  Pring hours Read Complete	TIME HOU

OCT 0 3 2007

DIV. OF OIL, GAS & MINIT

	ME		DEPTH		MORNING TOUR	WT.		PUMP	PAYROLL RECORD			
FROM	1700	FROM	то	AMOUNT	FORMATION AND DESCRIPTION OF WORK DONE	10000		S.P.M. PRESS		HRS.	INJUR	
	13		K 24		Ke-months and the second	2.69			DRILLER LINE WILLIAM	m(Car-700)	7	WHI.
							107	15×401 44244	DERRICKMAN ), 14 + 14 15	danst .	A	1/1
					WELD WELDULE CTEUR				MOTORMAN ROTA HOUNK	a Add Brown	A	BULL
	1		11500 E 11500 11500 E 11500						PLOORMAN IVY K. IN U	NHC HEREIN	7	K /
		S 72 43/4	200 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m		- <del>((1)</del>	Target Carlos			PLOORMAN SINCEPPER AS	yville	1	Sel.
									MFG	T .		
							BIT NO	BIT RECORD	SER #	TOTAL FTG.		100
							SIZE		JET SIZE	TOTAL HRS.  DICUT. STRUC	111	
					TOTAL WEIGHT OF DRILLING STRING		IADC	ODE	DEPTH IN DEPTH OUT	D CUT. STRUC. U I O D L L B G O R		
KEL	y DITE	NO.	FEET		MEABURED (IN) (OUT OF) HOLE MEABUREMENT YALLY BOARD		PLUS		IST ALL ENGINES #1 #2 DATE LAST OIL CHANGE	#3 LP1 LP1	DSD	P
STA	CONTRACTOR CONTRACTOR			TIME WI	WID RECORD  VISC. W.L. CARE P.H. SAND PV TP AMOUNT KIND		ATION D	REMARKS:	HOURS CORING TIME	HOURS REAMING T	TIME	нс
STATE SING	IDS ILES			TIME WI	MUD AND CHEMICALS ADDED			RILLING TIME	HOURS CORING TIME	HOURS REAMING T	IME	но
BING TOTAL	IDS ILES			TIME WI	MUD AND CHEMICALS ADDED			RILLING TIME	HOURS CORING TIME	HOURS REAMING T	TIME	но
STATE SING	IDS ILES IL IL	FROM	DEPTH TO		MUD AND CHEMICALS ADDED	DESTRUCTION OF THE PROPERTY OF	Pla	RILLING TIME	HOURS CORING TIME	HOURS REAMING T	IME.	
STATE SING	ADS  ALES  AL  SPOUP  AL DEPTH	FROM			VIBC. W.L. CARE P.H. SAND PV TP AMOUNT KIND	OPERATOR OF THE PROPERTY OF TH	Pla	RILLING TIME REMARKS:	PAYROLL RECORD  DRILLER ROCVOSTO	col = 700		
BING TOTAL KELL TOTA	SLES STOP TO TO	FROM			VIBC. W.L. CAKE P.H. SAND PV TP AMOUNT KIND  DAY TOUR  FORMATION AND DESCRIPTION OF WORK DONE	OPERATOR OF THE PROPERTY OF TH	Pla	RILLING TIME REMARKS:	PAYROLL RECORD  DRILLER ROCVOSTO	col = 700	HRS.	
STAI SING TOTAL KELI TOTAL	SLES STOP TO TO	FROM			VIBC. W.L. CAKE P.H. SAND PV YP AMOUNT RIND  DAY TOUR  FORMATION AND DESCRIPTION OF WORK DONE  RING  PORMATION AND DESCRIPTION OF WORK DONE	OPERATOR OF THE PROPERTY OF TH		RILLING TIME REMARKS:	PAYROLL RECORD  DRILLER ROOVOFN	col = 700	HRS.	
STAL SING TOTAL KELL TOTAL	SLES STOP TO TO	FROM			VIBC. W.L. CAKE P.H. SAND PV YP AMOUNT RIND  DAY TOUR  FORMATION AND DESCRIPTION OF WORK DONE  RING  PORMATION AND DESCRIPTION OF WORK DONE	OPERATOR OF THE PROPERTY OF TH		RILLING TIME REMARKS:	PAYROLL RECORD  DRILLER ROSVOTOS  DERRICKNAN, FER STONE	200	HRS.	
STAL SING TOTAL KELL TOTAL	SLES STOP TO TO	FROM			VIBC. W.L. CAKE P.H. SAND PV YP AMOUNT RIND  DAY TOUR  FORMATION AND DESCRIPTION OF WORK DONE  RING  PORMATION AND DESCRIPTION OF WORK DONE	O DECEMBED OF THE PROPERTY OF		RILLING TIME REMARKS:	PAYROLL RECORD  DRILLER ROSVOFA ( DERRICKMAN, JERE STONE MOTORMAN ROD HELLER	er-300	HRS.	
STAL SING TOTAL KELL TOTAL	SLES STOP TO	FROM			VIBC. W.L. CAKE P.H. SAND PV YP AMOUNT RIND  DAY TOUR  FORMATION AND DESCRIPTION OF WORK DONE  RING  PORMATION AND DESCRIPTION OF WORK DONE	O DECEMBED OF THE PROPERTY OF		RILLING TIME REMARKS:	PAYROLL RECORD  DRILLER ROSVOTA  DERHICKMAN, JER STONE  MOTORMAN ROS HEALES  FLOORMAN TO MY O SUB  FLOORMAN TO MY O SUB	er-300	HRS. 13. 13. 13. 13. 13. 13.	
STAI SING TOTAL KELI TOTAL	SLES STOP TO	FROM			VIBC. W.L. CAKE P.H. SAND PV YP AMOUNT RIND  DAY TOUR  FORMATION AND DESCRIPTION OF WORK DONE	O DECEMBED OF THE PROPERTY OF		RILLING TIME REMARKS:	PAYROLL RECORD  DRILLER RODVOFTO  DERRICKMAN, JERE STONE  MOTORMAN ROD HELLES  FLOORMAN JOHN A. SUB  FLOORMAN JOHN S. MERN  MFG	er-300	HRS. 13. 13. 13. 13. 13. 13.	
STAL SING TOTA KELL TOTA	SLES STOP TO	FROM			VIBC. W.L. CAKE P.H. SAND PV YP AMOUNT RIND  DAY TOUR  FORMATION AND DESCRIPTION OF WORK DONE  RING  PORMATION AND DESCRIPTION OF WORK DONE	O DECEMBED OF THE PROPERTY OF		PUMP  BIP.M. PRESS  BIT RECORD	PAYROLL RECORD  DRILLER ROSVOTA  DERHICKMAN, JER STONE  MOTORMAN ROS HEALES  FLOORMAN TO MY O SUB  FLOORMAN TO MY O SUB	ET TOTAL FTG. TOTAL HRS.	HRS. 13. 13. 13. 13. 13. 13.	
STAN SING	SLES STOP TO	FROM			VIBC. W.L. CAKE P.H. SAND PV YP AMOUNT RIND  DAY TOUR  FORMATION AND DESCRIPTION OF WORK DONE  RING  PORMATION AND DESCRIPTION OF WORK DONE	O DECEMBED OF THE PROPERTY OF	LINERS	PUMP  RIP.M. PAESE  BIT RECORD	PAYROLL RECORD  DRILLER ROSVOTO COMMOTORMAN ROSS HELDER FLOORMAN TO MAKE A SUB-FLOORMAN TO	CC TOTAL FTG.	HRS. 13 13 13 13	RYA N

OCT 0 3 2007

STANDS	State of State House House Server Sire	MUD AND CHEMICALS ADDED	THE DESIGNATION		DRILLING TIME	HOURS   CORING TIME	DURB REAMING TIM		HOURS
	TIME W				REMARKS:		english and series to be		
BINGLES					of Languages	1			
E TOTAL			4						
KELLY UP									
TOTAL DEPTH								17 (7 (d) 16 (4 (4 (d)	
TIME	DEPTH	EVENING TOUR -	WY.	RPM -	- PUMP	PAYROLL RECORD		HRS.	יאטנאו
FROM TO FROM	M TO AMOUNT	FORMATION AND DESCRIPTION OF WORK DONE	1000#	L	NERS S.P.M. PRESS	I was a second of the second o	S P C	nns.	Part II
00 1000		KUKT,				DRILLER WOODLE UNING	~ .	$\exists$	WUN
5°0   52°0		Rig-up throng Kelly				DERRICKMAN JUST IN WOLL	id	4	11:
		A. July John State Committee Committ				MOTORMAN I April 1 Hamilia	1500 L	4	$\mathcal{G}_{\mathcal{G}}$
	and the second					FLOORMAN (V) KO WANDE		41	
		-r00)*				FLOORMAN CL.	) C	4	SWALE.
		10 N.A.	100 0 100 7				The second secon		
		N. C.			BIT RECORD	MFG SERW	TOTAL FTG.		
				BI	T NO.	JET SIZE	TOTAL HRS.		
				SI	ZE	DEPTH IN	D CUT. STRUC.		
		TOTAL WEIGHT OF DRILLING STRING LOS		IA	DC CODE	DEPTH OUT	L B G O R		
KELLY SIZE NO.		E MEASURED (IN) (OUT OF) HOLE MEASUREMENT TALLY BOARD	CORR		PLUS MINUS PT.	DATE LAST OIL CHANGE 74 #2 (4 #	3 / LP1   LP2-	DSD	DST
			THE RESERVE OF THE PERSON NAMED IN	ATION			SECTION STATES AND SECTION OF THE PROPERTY OF	us à fortiers	HOURS
COLLARS		MUD RECORD		DEPTH	DRILLING TIME	HOURS CORING TIME HO	OURS REAMING TIME		
COLLARS "	Vine W	MUD RECORD  MUD AND CHEMICALS ADDED  T. VISC. W.L. CAKE P.H. SAND PV VP AMOUNT KIND			REMARKS:	HOURS CORING TIME HO	DURS REAMING TIME	E	
	YIME W	MUD AND CHEMICALS ADDED			CONTROL DESCRIPTION	HOURS CORING TIME HO	DURS REAMING TIM	<b>E</b>	a a de la companya de
STANDS	YIME	MUD AND CHEMICALS ADDED			CONTROL DESCRIPTION	HOURS   CORING TIME HO	DURS REAMING TIME	<u> </u>	
STANDS SINGLES TOTAL	YIME W	MUD AND CHEMICALS ADDED			CONTROL DESCRIPTION	HOURS   CORING TIME HO	DURS REAMING TIME	<b>E</b>	
STANDS SINGLES TOTAL KELLY UP	YIME W	MUD AND CHEMICALS ADDED			CONTROL DESCRIPTION	HOURS CORING TIME HO	DURS REAMING TIM	<b>E</b>	
STANDS SINGLES TOTAL KELESUP TOTAL DEPTH		T. VISC. W.L. CAKE P.H. SAND PV YP AMOUNT KIND	DEGREE	DEPTH	REMARKS:				The second secon
STANDS SINGLES TOTAL KELESUP TOTAL DEPTH		MUD AND CHEMICALS ADDED	DEGREE	DEPTH	REMARKS:				
STANDS SINGLES TOTAL KELLY UP TOTAL DEPTH  Company  SILENT	mit-Operat	VISC. W.L. CARE P.H. BAND PV VP AMOUNT KIND  Natural  Field Buttes lease UTUE	DEGREE 421	DIFFIN	REMARKS:	oc. 30 Twp/05 Rang24F Count	Wiston State	l tae	4
STANDS SINGLES TOTAL KELLY UP TOTAL DEPTH  Company SILENTE	mit-Operat	VISC. W.L. CARE P.H. BAND PV VP AMOUNT KIND  Natural  Field Buttes lease UTUE	DEGREE 421	DIFFIN	REMARKS:	oc. 30 Twp/05 Rang24F Count	Wiston State	l tae	4
STANDS SINGLES TOTAL KELLY UP TOTAL DEPTH  Company SILENTE	mit-Operat	Watural Field Zurtes lease UTUEs  well, day under surface, day without a  Lines OTM, since last cul Total T.M	lost time	accid	REMARKS:  FIGHT 34 Seent. Cumulative	oc. 30 Twp/05 Rang24F Count	Wiston State	l tae	4
STANDS SINGLES TOTAL KELLES UP TOTAL DEPTH  Company  SILENE	mit-Operat	well, day under surface, day without a Lines OTM, since last cul Total T.M	becare by the bottom by the bo	accid	REMARKS:  FIGHT 34 Seent Cumulative  THUS 197	oc. 30 Twp/05 Rang24F Count	Wiston State	/ fee	houi
STANDS SINGLES TOTAL KELLES UP TOTAL DEPTH  Company  SILENE	mit-Operat	Watural Field Zurtes lease UTUEs  well, day under surface, day without a  Lines OTM, since last cul Total T.M	becare by the bottom by the bo	accid	REMARKS:  FIGHT 34 Seent Cumulative  THUS 197	oc. 30 Twp/05 Rang24F Count	Wiston State	/ fee	hour
STANDS SINGLES TOTAL KELLES UP TOTAL DEPTH  Company  SILENE	mit-Operat	well, day under surface, day without a Lines OTM, since last cul Total T.M	becare by the bottom by the bo	accid	REMARKS:  FIGHT 34 Seent Cumulative  THUS 197	oc. 30 Twp/05 Rang24F Count	Wiston State	/ fee	hour
STANDS SINGLES TOTAL TOTAL DEPTH  Company  Company  Company  Company  Total Depth  Company  Total Depth  Company  Total Depth  Company  Total Depth  Total Depth	is 2 day on UNI No.	Watura L  Well, day under surface, day without a  Lines OTM. Since last cul Total T.M.  WAKE SURE ALL BLANKS ARE F	lost time	accid	Nell No. 33 Seent Cumulative	Time: Drillinghours Coring	Wiston State	/ fee	4
B STANDS  B SINGLES  TOTAL  KELLY UP  TOTAL DEPTH  Company  SILENT  Rig No. 22. This  Drilling Line: Make 12	mit-Operatis 2 kd day on URI No.	well, day under surface, day without a Lines OTM, since last cul Total T.M	lost time	a accid	REMARKS:  FIGURE 34  Nell No. 30 Se  ent. Cumulative  FIGURE 101  AD SKETCHES  CORRECT	Time: Drillinghours Coring	Wiston State	/ fee	hour

TIMI			DEPTH		MORNING TOUR	WY.	179.00	PU	•				
FROM	70	FROM	то	AMOUNT	FORMATION AND DESCRIPTION OF WORK DONE	1000F	n Pau	LIMERS S.F	M. PRESS	PAYROLL RECORD	HF	RS.	INJURY
1:00	1:00				MANIE & RIVE WE WITHURW	4				DRILLER C.D. LASTER ICAR	WEAL !	2/	*JA
										DERRICKMAN QUE RESEARCH SANCH	HILL Z VE	a V	X 11
					Was a second of the second of		1			MOTORMAN GREE- ECKERT	- 72	2 6	ENV
					and the second second					PLOORMAN BYROW LI-ATHA	ana /	1. 3	LN
										FLOORMAN MICHAEL JOLIL	1=12	2	T 11
					LO KL								
									IT RECORD		AL FTG.		
								BIT NO.		SER# TOTAL	AL HRS.		
								SIZE		JET SIZE D CUT	JT. STRUC.		
					TOTAL WEIGHT OF DRILLING STRING LES.			IADC CODE					
STANDE SINGLE TOTAL	•			TIME W	WUD RECORD WIL CARE PH. SAND PV TP AMOUNT KIND			PTH DRILL	MARKS:	The state of the s	PEAMING TIME	Mary 2 grants	нои
BINGLE TOTAL LESS KELLY TOTAL	UP DEPTH			TIME W	VISC W.L. CARE P.H. SAND PV YP AMOUNT RIND	Depart		PTN DRICE	ING TIME	HOURS CORING TIME HOURS RE		W2429	HOUF
STANDS SINGLE TOTAL LESS KELLY TOTAL TIME	UP DEPTH	FROM	DEPTH. TO	TIME W	MUD AND CHEMICALS ADDED			PTH DRILL	ING TIME	HOURS CORING TIME HOURS RE	REAMING TIME		
BINGLE TOTAL LESS KELLY TOTAL TIME	UP DEPTH	FROM			VISC W.L CARE P.H. SAND PV VP AMOUNT KIND  DAY TOUR  FORMATION AND DESCRIPTION OF WORK DONE	WT.		R	MARKS:	HOURS CORING TIME HOURS RE	NEAMING TIME	RS.	אחראן,
STANDS SINGLE TOTAL LESS KELLY TOTAL TIME	UP DEPTH	FROM			VISC W.L CARE P.H. SAND PV VP AMOUNT KIND  DAY TOUR  FORMATION AND DESCRIPTION OF WORK DONE	WT.		R	MARKS:	HOURS CORING TIME HOURS RE	NEAMING TIME	RS.	
STANDS SINGLE TOTAL LESS KELLY TOTAL TIME	UP DEPTH	FROM			VISC W.L CARE P.H. SAND PV VP AMOUNT KIND  DAY TOUR  FORMATION AND DESCRIPTION OF WORK DONE	WT.		R	MARKS:	PAYROLL RECORD  DRILLER TOWN BOWN TON 1  DERRICKMAN DAY IN JUNE 19 1	NEAMING TIME	RS.	אטנאו. אטנאו
STANDS SINGLE TOTAL LESS KELLY TOTAL TIME	UP DEPTH	FROM			VISC W.L CARE P.H. SAND PV VP AMOUNT KIND  DAY TOUR  FORMATION AND DESCRIPTION OF WORK DONE	WT.		R	MARKS:	PAYROLL RECORD  DRILLER TMMY SYNLAY 1913.  DERRICKMAN DAVID WAS 1913.	NEAMING TIME	RS.	AUCNI RUCKI
STANDS SINGLE TOTAL LESS KELLY TOTAL TIME	UP DEPTH	FROM			VISC W.L CARE P.H. SAND PV VP AMOUNT KIND  DAY TOUR  FORMATION AND DESCRIPTION OF WORK DONE	WT.		R	MARKS:	PAYROLL RECORD  DRILLER TOWN BRUN FOR TO THE MOTORMAN ROLL OF THE PAYROLL RECORD  DERRICKMAN DAVID WILL FOR THE PAYROLL RECORD  MOTORMAN ROLL CRAIM.  FLOORMAN JAMFS CAMPT	HEAMING TIME	2 7/2 2 A	INJUR RAP A A
STANDS SINGLE TOTAL LESS KELLY TOTAL TIME	UP DEPTH	FROM			VISC W.L CARE P.H. SAND PV VP AMOUNT KIND  DAY TOUR  FORMATION AND DESCRIPTION OF WORK DONE	WT.		R	MARKS:	PAYROLL RECORD  DRILLER TOWN BROWN TON 1  DERRICKMAN DAVID WIE CALL  MOTORMAN ROLL COLL  FLOORMAN ROLL CALL  FLOORMAN ROLL FOR CALL  FLOORMAN ROLL FOR CALL	HEAMING TIME	RS.	INJUR RAP A A
STANDS SINGLE TOTAL LESS KELLY TOTAL TIME	UP DEPTH	FROM			VISC W.L CARE P.H. SAND PV VP AMOUNT KIND  DAY TOUR  FORMATION AND DESCRIPTION OF WORK DONE	WT.		PU LINERS SIP	MARKS:	PAYROLL RECORD  DRILLER I MANY BYPLIN FOR 3.  DERRICKMAN DAUI & LIA 65 CF  MOTORNAN FLOORMAN JAMFS CAUT.  FLOORMAN JAMFS CAUT.  FLOORMAN JAMFS CAUT.	HEAMING TIME	2 7/2 2 A	INJUR RAP LA A CAC
STANDS SINGLE TOTAL LESS KELLY	UP DEPTH	FROM			VISC W.L CARE P.H. SAND PV VP AMOUNT KIND  DAY TOUR  FORMATION AND DESCRIPTION OF WORK DONE	WT.		PU LINERS SIP	MARKS:	PAYROLL RECORD  DRILLER TOTAL STATE  DERRICKMAN DAVID WARDSTOFF  MOTORMAN STALL STALL  FLOORMAN STALL STALL  FLOORMAN STALL  MFG  SER#  TOTAL	HEAMING TIME	2 7/2 2 A	INJURY  RAF  CAL
STANDS SINGLE TOTAL LESS KELLY TOTAL TIME	UP DEPTH	FROM			VISC W.L CARE P.H. SAND PV VP AMOUNT KIND  DAY TOUR  FORMATION AND DESCRIPTION OF WORK DONE	WT.		PU LINERS SIP	MARKS:	PAYROLL RECORD  DRILLER TOTAL STALL TOTAL  DERRICKMAN DAVID WAS FOUNT TOTAL  FLOORMAN STALL TOTAL  SER #  JET SIZE  HOURS RIVER TOTAL  TOTAL  JET SIZE  DOCUMENT TOTAL  DOCUME	AL FTG:	2 7/2 2 A	d W C Au 'N
STANDS SINGLE TOTAL LESS KELLY TOTAL TIME	UP DEPTH	FROM			DAY TOUR FORMATION AND DESCRIPTION OF WORK DONE  MELIE ELECTION OF WORK DONE	WT.		PU LINERS S.P.	MARKS:	PAYROLL RECORD  DRILLER TOTAL SOLIT TOTAL  PAYROLL RECORD  DRICKMAN DAVID WARDSTEP  MOTORNAN FROM FOUND  FLOORMAN TAMAFO AUTO  MEG TOTAL  SER#  JET SIZE  DEPTH IN  DO UNE TOTAL  TOTAL  DEPTH IN  DO UNE TOTAL  TOTAL  DEPTH IN  DO UNE TOTAL  DO UNE TOTAL  DEPTH IN  DEPHH IN  DEPTH IN  DEPHH	HAR THE TOTAL THE	2 7/2 2 A	INJUR RAP LA A CAC

DIV. OF OIL, GAS & MINING

		MUD RECORD	tel totalentommentom more	EPTH DRIL	LING TIME	HOURS CORING TIME HOURS	REAMING TIME	HOUR
STANDS	TIME	WT. VISC. W.L. CAKE P.H. SAND PV YP AMOUNT KIND		F	REMARKS:	<b>:</b>		
BINGLES								
TOTAL								
LESS .								
TOTAL DEPTH								
TIME	DEPTH	EVENING TOUR - "-	WT:	P	UMP	PAYROLL RECORD		
FROM TO FROM	TO AMOUN	NT FORMATION AND DESCRIPTION OF WORK DONE	1000#	LINERS 8.	P.M. PRESS		HRS.	INJUR
·crtical		Malle & Pia Up				DRILLER		
						DERRICKMAN JUSTIN Noland	12 3	A WE
					-	MOTORMAN KON HOLLEN KINNELL	AZ A	FA 1
					4.54	FLOORMAN AAIT & TALLAGO	5 12 h	aji k
		, coth,				FLOORMAN SWAND NIKE	125	ACK
		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	10 m			Ichn D 11826he	6 / /汽石	175
4 2		100 x			BIT RECORE	CONTROL OF THE PROPERTY OF THE	AL FTG.	
				BIT NO.		ICT CIZE	AL HRS.	
				SIZE		DI C	UT. STRUC.	
		TOTAL WEIGHT OF DRILLING STRING LBS.		IADC COD	E	DEPTH OUT L B	GOR	
KELLY SIZE NO.		LPIPE MEASURED (IN) (OUT OF) HOLE RECT MEASUREMENT TALLY SOARD	CORRECTI	PLUP ON MINUS	rn.	LIST ALL ENGINES #1 #2 #3 LF	Pi LP2 DSD	DS
						THE PROPERTY OF THE PROPERTY O	CONTROL OF THE CONTRO	
COLLARS		MUD RECORD	DEVIATION DEGREES D	EPTH DRIL	LING TIME	HOURS CORING TIME HOURS F	REAMING TIME	HOUR
COLLARS	TIME	MUD RECORD  MUD AND CHEMICALS ADDED  WIT. VIEC. W.L. CAKE P.H. SAND PV VP AMOUNT KIND		EPTH DRIL	LING TIME		REAMING TIME	HOUR
		MUD AND CHEMICALS ADDED		EPTH DRIL			REAMING TIME	HOUR
STANDS		MUD AND CHEMICALS ADDED		EPTH DRIL			REAMING TIME	HOUF
SINGLES TOTAL		MUD AND CHEMICALS ADDED		EPTH DRIL			REAMING TIME	HOU
STANDS SINGLES TOTAL LESS KELLY UP	TIME	WT. VIEC. W.L. CAKE P.H. SAND PV VP AMOUNT KIND	DOGREES D	FR P	REMARKS:	<b>:</b>		
STANDS SINGLES TOTAL LESS KELLY UP	TIME	WT. VIEC. W.L. CAKE P.H. SAND PV VP AMOUNT KIND	DOGREES D	FR P	REMARKS:	<b>:</b>		
STANDS SINGLES TOTAL KELLY UP TOTAL DEPTH  Company SUMMA	TIME	WT. VIBC. W.L. CAKE P.H. SAND PV WP AMOUNT KIND  ATING L. C. Field Natural Buttes F. H. 31	COURTES D	Fed (	**************************************	Sec 3 Twp 10 S Range 1 E County Uico	th State Litable	1
STANDS SINGLES TOTAL KELLY UP TOTAL DEPTH  Company SUMMA	TIME	WT. VIBC. W.L. CAKE P.H. SAND PV WP AMOUNT KIND  ATING L. C. Field Natural Buttes F. H. 31	COURTES D	Fed (	**************************************	Sec 3 Twp 10 S Range 1 E County Uico	th State Litable	1
STANDS SINGLES TOTAL KELSY UP TOTAL DEPTH  Company SUM NA	TIME	wt. visc. w.L. CAKE P.H. SAND PV WD AND CHEMICALS ADDED KIND  WT. VISC. W.L. CAKE P.H. SAND PV WD ANDUNT KIND  A TIME CONTROL	ost time a	Pred Well N	Y5Y-30 lo Suumulative	Sec. 3 Twp 10 S Range 1 F County Live	hours Reaming	1
STANDS SINGLES TOTAL LESS TOTAL TOTAL DEPTH  Company SUM A	TIME	wr. visc. w.L. CAKE P.H. SAND PV WP AMOUNT KIND  ATING Field Notural Buttes F. H. 34  on well, day under surface, day without a lo. Lines F. T.M. since last cut Total T.M.	ost time a	Fred I Well N	757-20 loSumulative	Sec. 3 Twp 10 S Range 1 F County Live	hours Reaming	1
STANDS SINGLES TOTAL LESS TOTAL TOTAL DEPTH  Company SUM A	TIME	on well, day under surface, day without a lo. Lines T.M. since last cut Total T.M USE BACK OF YELLOW SHEET FOR CALC	ost time a	Fad I Well N ccident, C	NSY-30 lo. Soumulative	Sec. 3 Twp 10 S Range 1 F County Live	hours Reaming	1
STANDS SINGLES TOTAL KELLY UP TOTAL DEPTH  Company SUM MA	TIME	wr. visc. w.L. CAKE P.H. SAND PV WP AMOUNT KIND  ATING Field Notural Buttes F. H. 34  on well, day under surface, day without a lo. Lines F. T.M. since last cut Total T.M.	ost time a	Fad I Well N ccident, C	NSY-30 lo. Soumulative	Sec. 3 Twp 10 S Range 1 F County Live	hours Reaming	
STANDS SINGLES TOTAL KELLY UP TOTAL DEPTH  Company SUM MA	TIME	on well, day under surface, day without a lo. Lines T.M. since last cut Total T.M USE BACK OF YELLOW SHEET FOR CALC	ost time a	Fad I Well N ccident, C	NSY-30 lo. Soumulative	Sec. 3 Twp 10 S Range 1 F County Live	hours Reaming	1
STANDS SINGLES TOTAL LESS TOTAL L	TIME  TIME  A TOPET  A DOPET  A DOPET	on well, day under surface, day without a loc back of YELLOW SHEET FOR CALC MAKE SURE ALL BLANKS ARE FI	ost time a Date ULATIONS LLED, AI	Well N ccident C A 7 4 S AND SK ND COR	WSY-30 lo. So umulative ETCHES	Sec. 3 Twp 10 S Rang 27 F County 11 A T Time: Drilling hours Coring THIS REPORT IS FULL THIS FUL	hours Reaming	1
STANDS SINGLES TOTAL KEESSUP TOTAL DEPTH  Company SUMMA Rig No. 12. This is	TIME  TIME  A TOPET  A DOPET  A DOPET	on well, day under surface, day without a loc Lines 15 T.M. since last cut. Total T.M.  USE BACK OF YELLOW SHEET FOR CALC  MAKE SURE ALL BLANKS ARE FI	ost time a Date ULATIONS LLED, AI	Well N ccident C A 7 4 S AND SK ND COR	WSY-30 lo. So umulative ETCHES	Time: Drillinghours Coring	hours Reaming	1

DIV. OF OIL, GAS & MINING

From:

"Kristi Higgs" <kristi@summitcorp.net>

To:

<dianawhitney@utah.gov>

Date: Subject: 9/23/2008 8:51 AM Federal H 34-30 Well

Hi Diana,

105

ZAE

30

The Federal H 34-30 well, API # 43-047-38883, operated by Summit Operating, LLC is located on the Federal lease # UTU-66421. The Lease that is currently on record (UTU-77658) is the right-of-way lease for the gas pipeline to the Federal 34-30 well, so the lease needs to be changed to the UTU-66421 lease, as this is the lease that the well is actually on. Thanks for your help.

Kristi Higgs

Operations

Summit Operating, LLC

435-940-9001

kristi@summitcorp.net

## RECEIVED

Form 3160-5 (August 2007)

**UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT JUL 1 8 2013 1

FORM APPROVED

OF OIL, GAS & MINIT	OMB No. 1004-0137 Expires: July 31, 2010
	5. Lease Serial No. UTU-66421
.S	6. If Indian, Allottee or Tribe Name

SUNDRY NOTICES AND REPORTS ON	VVELLS
Do not use this form for proposals to drill or	to re-enter an

NA abandoned well. Use Form 3160-3 (APD) for such proposals. 7. If Unit of CA/Agreement, Name and/or No. SUBMIT IN TRIPLICATE - Other instructions on page 2. 1. Type of Well 8. Well Name and No. FED H 34-30 Oil Well **✓** Gas Well Other 9. API Well No. 43-047-38883 2. Name of Operator Summit Operating, LLC 10. Field and Pool or Exploratory Area 3b. Phone No. (include area code) 3a. Address 1245 Brickyard Road, Suite 210 Salt Lake City, UT 84106 Natural Buttes 435-940-9001 4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SWSE, Sec. 30, T10S, R24E, SLM 602' FSL, 2088' FEL 11. Country or Parish, State Uintah, Utah 12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA TYPE OF ACTION TYPE OF SUBMISSION Water Shut-Off Deepen Production (Start/Resume) Acidize ✓ Notice of Intent Well Integrity Fracture Treat Reclamation Alter Casing Recomplete Other Casing Repair New Construction Subsequent Report Plug and Abandon Temporarily Abandon Change Plans Plug Back Water Disposal Convert to Injection Final Abandonment Notice 13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.) Summit Operating, LLC is requesting permission to recomplete this well in the Wasatch formation, work includes perforating and stimulating a zone from 4488' - 4544'. After recompletion, comingling the resulting production with existing production in the Mesa Verde Formation is requested. A detailed recompletion procedure is attached. Note that the Composite Frac Plug (CFP) being used to isolate the depleted Mesa Verde from the higher pressure Wasatch will allow flow up from the Mesa Verde but not flow down from the Wasatch to the Mesa Verde. Plans are to remove the CFP after pressures in the two formations equalize for unrestricted REQUEST DENIED comingled flow. Utah Division of Oil, Gas and Mining of Rbug-3-22. Extressibilities the eperant system. requirements submitted ma 14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Crystal Hammer Title Geology Technician Date 07/16/2013 Signature THIS SPACE FOR FEDERAL OR STATE OFFICE USE Approved by Date Title Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would Office entitle the applicant to conduct operations thereon. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

## **Summit Operating, LLC Recompletion Procedure**

DIV. OF OIL, GAS & MINING

#### Federal H 34-30

#### **Natural Buttes Field**

Purpose:

Recomplete in Wasatch.

#### PERTINENT INFORMATION

Location:

602' FSL, 2088' FEL (SWSE)

Section 30, Township 10 South, Range 24 East

Uintah County, Utah

Elevation:

5312' GL, 5327' KB

TD:

7211'

PBTD:

6390' (CBP)

API No.:

43-047-38883

Casing:

9-5/8", 36.0#, J-55, ST&C @ 2032', cemented to surface

4-1/2". 11.6#, I-80, LT&C @ 7211', cemented with 130 Bbls H-Fill and 230 Bbls Poz-

Prem

Wellhead:

Tubing Head Flange – 11" 5M x 7-1/16" 5M, 2-3/8" 8rd top thread on hanger

Tubing:

5855' of 2-3/8", 4.7#, J-55, EUE, 8rd

**Production Casing Specs:** 

4-1/2", 11.6#, I-80, LT&C, 8rd, ID: 4.000" Drift: 3.875"

Collapse: 6350 psi

Burst: 7780 psi (70% 5446 psi)

**Tubing Specs:** 

2-3/8", 4.7#, J-55?, EUE, 8rd, ID: 1.995" Drift: 1.901"

Collapse: 11,780 psi Burst: 11,200 psi (80% 8960 psi)

Joint: 104,000 lbs (70% 72,800 lbs)

Capacities:

4-1/2", 11.6#:

0.0155 Bbls/ft

 $0.0873 \text{ ft}^3/\text{ft}$ 

2-3/8", 4.7# 4-1/2" x 2-3/8" 0.00387 Bbls/ft 0.0101 Bbls/ft 0.0217 ft<sup>3</sup>/ft 0.0565 ft<sup>3</sup>/ft

BH Temperature: 135 °F @ 4500'

Current Mesa Verde Completion Interval: 5898' - 6202'

Proposed Wasatch Formation Completion Interval: 4488' - 4544'

Proposed New Perforations: 4488' – 4499', 11', 33 holes

4526' – 4538' and 4540' – 4544', 16', 48 holes

Perforation Depths are referenced to Halliburton SDL-DSN-GR dated 08/26/07.

#### **PROCEDURE**

- 1. Check dead men and prepare location for workover. Spot a clean 500 Bbl tank and partially fill it with 250 Bbls of 2% KCl water. Mix 5.25 gallons (250 ppm) Baker Petrolite XC102W biocide, 1.25 gallons (60 ppm) OSW5200 Oxygen Scavenger, and 21 gallons (1000 ppm) Baker Petrolite WAW 3003 non-ionic surfactant to the tank and use fluid from this tank for kill fluid. Equivalent chemical from other sources can be substituted.
- 2. MIRUSU. Catch plunger at surface. Reverse circulate kill fluid, disconnect flow lines, ND wellhead, and NU BOP.
- 3. POOH with tubing.
- 4. PU tubing as needed and round trip a 3-7/8" bit and 4-1/2" (11.6#) casing scraper to CBP at 6390'.

Note: If hydraulic fracturing service is not scheduled to avoid service rig waiting time, lay down tubing and RDMO service unit. Wireline and fracture stimulation service will be done without rig and service rig will be moved in to rerun tubing. Decision whether to leave BOP on well or replace it with frac valve will be made based on pumping and rig service timing.

- 5. Spot three more clean 500 Bbl tanks and fill all three frac tanks with fresh water. Mix biocide recommended by selected hydraulic fracturing service company in all three tanks. Install an anchored 2" flowback line with choke from the casing to one of the three frac tanks.
- 6. RU wireline service. Run and wireline set a 4-1/2" (11.6#) composite frac plug (CFP) at 5875'. Perforate the intervals at 4488' 4499' (11'), 4526' 4538' (12') and 4540' 4544' (4') with 0.5" diameter holes using 3-1/8" hollow carriers loaded 3 SPF on 120° phasing and 19 gram charges. RD and release wireline unit.
- 7. RU pumping service to fracture stimulate the Wasatch interval at 4488' 4544' as follows:

Materials: 1500 Bbls of fresh water at 90 °F

90,000 lbs 20/40 mesh sand

Fluid additives per Service Company recommendation

Use hot oiler or super heater to heat water in all three tanks to 90 °F. Install wellhead isolation tool (if needed) and pump fracture stimulation as follows with a maximum pressure of 5000 psi and maximum rate of 30 BPM:

- a. Initiate injection and ramp rate up to 30 BPM while pumping 2500 gallons of linear gel. Shut down and record ISIP.
- b. Pump 11000 gallons pad fluid.
- c. Pump 6850 gallons of fluid with 1 ppg sand.
- d. Pump 6850 gallons of fluid with 2 ppg sand.
- e. Pump 6000 gallons of fluid with 3 ppg sand.
- f. Pump 9000 gallons of fluid with 4 ppg sand.
- g. Pump 3150 gallons of fluid with 5 ppg sand.
- h. Pump 2920 gallons of flush.
- i. Shut down and record ISI, 5, 10, and 15 minute pressures.
- 8. Remove wellhead isolation tool. Start controlled flow back at less than 1.0 BPM to bleed back pressure.
- 9. RD and release service company.
- 10. Continue to flow well for cleanup until well dies or it is capable of flowing gas at commercial rates.
- 11. Kill well as needed to install BOP and start running tubing.

- 12. With stripping rubber in place, RIH with a 2-3/8" pump-out plug (w/ aluminum plug), one joint of 2-3/8" tubing, 2-3/8" x 1.875" ID X-nipple, and 2-3/8" tubing. Land tubing at  $\sim$ 4480'.
- 13. ND BOP and NU wellhead.
- 14. Use rig pump to pressure tubing and shear the pump-out plug.
- 15. RU and swab tubing as necessary to initiate flow. Turn well to production.
- 16. RDMO service unit.

	STATE OF UTAH		FORM 9		
[	DEPARTMENT OF NATURAL RESOURC DIVISION OF OIL, GAS, AND MIN	-	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-77658		
SUNDR	Y NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
Do not use this form for pro current bottom-hole depth, I FOR PERMIT TO DRILL form	posals to drill new wells, significantly or reenter plugged wells, or to drill horizon n for such proposals.	deepen existing wells below ntal laterals. Use APPLICATION	7.UNIT or CA AGREEMENT NAME:		
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: FEDERAL H 34-30		
2. NAME OF OPERATOR: SUMMIT OPERATING, LLC			9. API NUMBER: 43047388830000		
3. ADDRESS OF OPERATOR: 1245 Brickyard Road, Suite	210 , Salt Lake City, UT, 84106	9. FIELD and POOL or WILDCAT: NATURAL BUTTES			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0602 FSL 2088 FEL			COUNTY: UINTAH		
QTR/QTR, SECTION, TOWNSH	HP, RANGE, MERIDIAN: 10 Township: 10.0S Range: 24.0E Merid	an: S	STATE: UTAH		
11. CHECH	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA		
TYPE OF SUBMISSION		TYPE OF ACTION			
	ACIDIZE	ALTER CASING	CASING REPAIR		
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME		
8/30/2013	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE		
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION		
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK		
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	✓ RECOMPLETE DIFFERENT FORMATION		
SPUD REPORT Date of Spud:					
Date of Spud.	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON		
	L TUBING REPAIR		☐ WATER DISPOSAL		
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION		
	WILDCAT WELL DETERMINATION	OTHER	OTHER:		
Summit Operating, I in the Wasatch form zone from 4488' - 4 production with excepted. A detacontiguous leases contiguous lease I Plug (CFP) being higher pressure Wasflow down from the V	COMPLETED OPERATIONS. Clearly show a LC is requesting permission mation, work includes perfor 4544'. After recompletion, consisting production in the Mesailed recompletion procedure, and an affidavit attesting to holders is attached. Note that used to isolate the depleted satch will allow flow up from Wasatch to the Mesa Verde. The res in the two formations equivalents of the two formations equivalents.	n to recomplete this well ating and stimulating a omingling the resulting a werde Formation is e, lease plat showing the notification of all at the Composite Frac Mesa Verde from the the Mesa Verde but not Plans are to remove the	Accepted by the Utah Division of Oil, Gas and Mining  Date: September 19, 2013  By: Day K. Durf		
NAME (PLEASE PRINT) Crystal Hammer	PHONE NUMB	ER TITLE Geo Tech			
SIGNATURE	435 940-9001	DATE			
N/A		8/21/2013			

### **Summit Operating, LLC Recompletion Procedure**

#### Federal H 34-30

#### **Natural Buttes Field**

Purpose: Recomplete in Wasatch.

#### PERTINENT INFORMATION

Location: 602' FSL, 2088' FEL (SWSE)

Section 30, Township 10 South, Range 24 East

Uintah County, Utah

Elevation: 5312' GL, 5327' KB

TD: 7211'

PBTD: 6390' (CBP) API No.: 43-047-38883

Casing: 9-5/8", 36.0#, J-55, ST&C @ 2032', cemented to surface

4-1/2", 11.6#, I-80, LT&C @ 7211', cemented with 130 Bbls H-Fill and 230 Bbls Poz-

Prem

Wellhead: Tubing Head Flange – 11" 5M x 7-1/16" 5M, 2-3/8" 8rd top thread on hanger

Tubing: 5855' of 2-3/8", 4.7#, J-55, EUE, 8rd

Production Casing Specs: 4-1/2", 11.6#, I-80, LT&C, 8rd, ID: 4.000" Drift: 3.875"

Collapse: 6350 psi Burst: 7780 psi (70% 5446 psi)

Tubing Specs: 2-3/8", 4.7#, J-55?, EUE, 8rd, ID: 1.995" Drift: 1.901"

Collapse: 11,780 psi Burst: 11,200 psi (80% 8960 psi)

Joint: 104,000 lbs (70% 72,800 lbs)

Capacities: 4-1/2", 11.6#: 0.0155 Bbls/ft 0.0873 ft<sup>3</sup>/ft

2-3/8", 4.7# 0.00387 Bbls/ft 0.0217 ft<sup>3</sup>/ft 4-1/2" x 2-3/8" 0.0101 Bbls/ft 0.0565 ft<sup>3</sup>/ft

BH Temperature: 135 °F @ 4500'

Current Mesa Verde Completion Interval: 5898' – 6202'

Proposed Wasatch Formation Completion Interval: 4488' – 4544'

Proposed New Perforations:

4488' – 4499', 11', 33 holes

4526' – 4538' and 4540' – 4544', 16', 48 holes

Perforation Depths are referenced to Halliburton SDL-DSN-GR dated 08/26/07.

Page 2 Federal H 34-30 July 1, 2013

#### **PROCEDURE**

- 1. Check dead men and prepare location for workover. Spot a clean 500 Bbl tank and partially fill it with 250 Bbls of 2% KCl water. Mix 5.25 gallons (250 ppm) Baker Petrolite XC102W biocide, 1.25 gallons (60 ppm) OSW5200 Oxygen Scavenger, and 21 gallons (1000 ppm) Baker Petrolite WAW 3003 non-ionic surfactant to the tank and use fluid from this tank for kill fluid. Equivalent chemical from other sources can be substituted.
- 2. MIRUSU. Catch plunger at surface. Reverse circulate kill fluid, disconnect flow lines, ND wellhead, and NU BOP.
- 3. POOH with tubing.
- 4. PU tubing as needed and round trip a 3-7/8" bit and 4-1/2" (11.6#) casing scraper to CBP at 6390'.

Note: If hydraulic fracturing service is not scheduled to avoid service rig waiting time, lay down tubing and RDMO service unit. Wireline and fracture stimulation service will be done without rig and service rig will be moved in to rerun tubing. Decision whether to leave BOP on well or replace it with frac valve will be made based on pumping and rig service timing.

- 5. Spot three more clean 500 Bbl tanks and fill all three frac tanks with fresh water. Mix biocide recommended by selected hydraulic fracturing service company in all three tanks. Install an anchored 2" flowback line with choke from the casing to one of the three frac tanks.
- 6. RU wireline service. Run and wireline set a 4-1/2" (11.6#) composite frac plug (CFP) at 5875'. Perforate the intervals at 4488' 4499' (11'), 4526' 4538' (12') and 4540' 4544' (4') with 0.5" diameter holes using 3-1/8" hollow carriers loaded 3 SPF on 120° phasing and 19 gram charges. RD and release wireline unit.
- 7. RU pumping service to fracture stimulate the Wasatch interval at 4488' 4544' as follows:

Materials: 1500 Bbls of fresh water at 90 °F

90,000 lbs 20/40 mesh sand

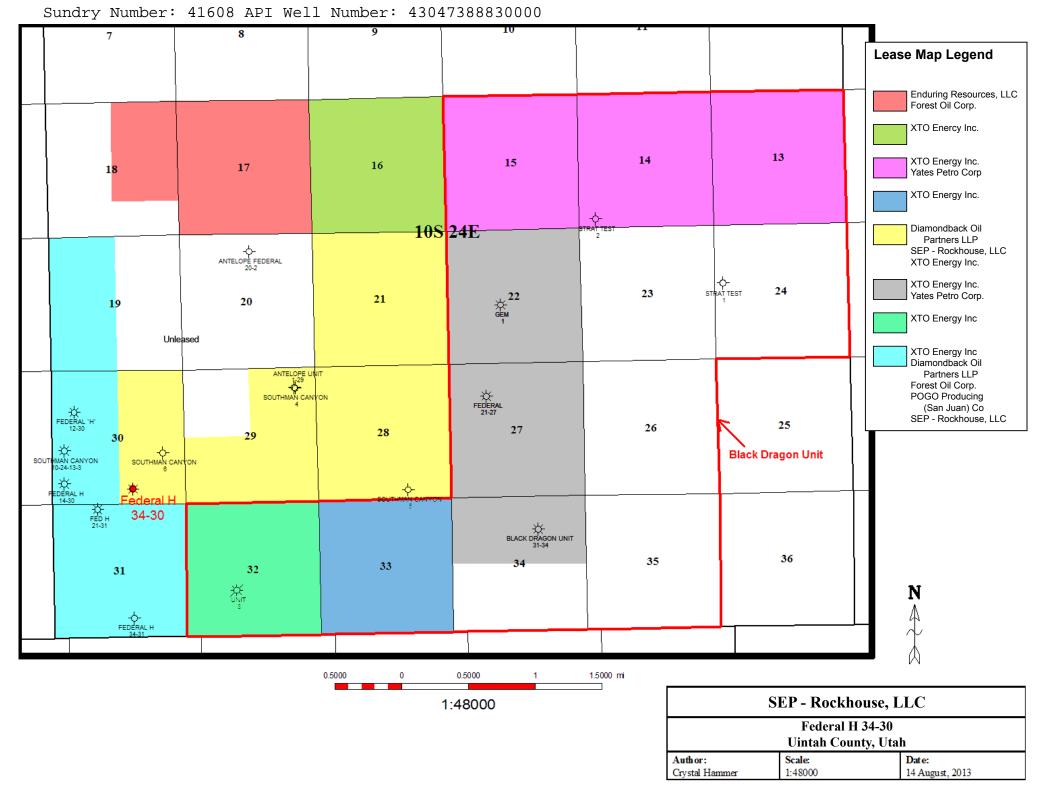
Fluid additives per Service Company recommendation

Use hot oiler or super heater to heat water in all three tanks to 90 °F. Install wellhead isolation tool (if needed) and pump fracture stimulation as follows with a maximum pressure of 5000 psi and maximum rate of 30 BPM:

- a. Initiate injection and ramp rate up to 30 BPM while pumping 2500 gallons of linear gel. Shut down and record ISIP.
- b. Pump 11000 gallons pad fluid.
- c. Pump 6850 gallons of fluid with 1 ppg sand.
- d. Pump 6850 gallons of fluid with 2 ppg sand.
- e. Pump 6000 gallons of fluid with 3 ppg sand.
- f. Pump 9000 gallons of fluid with 4 ppg sand.
- g. Pump 3150 gallons of fluid with 5 ppg sand.
- h. Pump 2920 gallons of flush.
- i. Shut down and record ISI, 5, 10, and 15 minute pressures.
- 8. Remove wellhead isolation tool. Start controlled flow back at less than 1.0 BPM to bleed back pressure.
- 9. RD and release service company.
- 10. Continue to flow well for cleanup until well dies or it is capable of flowing gas at commercial rates.
- 11. Kill well as needed to install BOP and start running tubing.

Page 3 Federal H 34-30 July 1, 2013

- 12. With stripping rubber in place, RIH with a 2-3/8" pump-out plug (w/ aluminum plug), one joint of 2-3/8" tubing, 2-3/8" x 1.875" ID X-nipple, and 2-3/8" tubing. Land tubing at ~4480'.
- 13. ND BOP and NU wellhead.
- 14. Use rig pump to pressure tubing and shear the pump-out plug.
- 15. RU and swab tubing as necessary to initiate flow. Turn well to production.
- 16. RDMO service unit.



## **AFFIDAVIT**

STATE OF UTAH } ss County of Salt Lake }

COMES NOW, Crystal Hammer, (hereinafter referred to as "Affiant"), on behalf of Summit Operating, LLC (hereinafter referred to as "Summit"), whose address is 1245 E. Brickyard Drive, #210, Salt Lake City, Utah, 84106, the current Operator of the Federal H 34-30 well located in SW ¼ SE ¼, Section 30, Township 10 South, Range 24 East, SLM, Uintah County, Utah (hereinafter referred to as the "Well"), being first duly sworn upon oath, affirms, deposes and says the following:

- 1. Affiant is a citizen of the United States of America and is over 21 years of age;
- 2. Affiant, or persons under the direction and control of Affiant, on behalf of the Summit has prepared and submitted, or is submitting an application to commingle production from the Wasatch formation with production from the Mesa Verde formation in the Well (hereinafter referred to as the "Application");
- 3. Those persons and entities listed on Exhibit A represent all of the owners of the contiguous oil and gas leases or drilling units overlying the pool as described in the Application;
- 4. Affiant, or persons under the direction and control of the Affiant, has caused a copy of the Application to be mailed by certified United States Mail, postage prepaid, return receipt requested, to each of the parties listed on Exhibit A;

Further the Affiant sayeth not.

Dated: August 21st, 2013

Crystal Hammer, Affiant

JURAT

Subscribed to and sworn before me this 21<sup>st</sup> day of August, 2013.

NOTARY PUBLIC 607525
LARRY R. WILLIAMS
COMMISSION EXPIRES 2/17/2015
STATE OF UTAH

Notary Public

#### Notices Mailed to the Following:

Enduring Resources II LLC 511 16<sup>th</sup> St. Ste 700 Denver, CO 80202

Forest Oil Corp 707 17<sup>th</sup> St. #3600 Denver, CO 80202

XTO Energy Inc. 810 Houston St. #200 Fort Worth, TX 76102

Yates Petro Corp 105 S. Fourth St. Artesia, NM 88210

Enduring Resources LLC 511 16<sup>th</sup> St. Ste 700 Denver, CO 80202

Diamondback Oil Partners LLP 5990 Kipling Pkwy #201 Arvada, CO 80004

POGO Producing (San Juan) Co PO Box 10340 Midland, TX 79702

SEP – Rockhouse, LLC 1245 Brickyard Rd., Ste 210 Salt Lake City, UT 84106

Asphalt Wash: UTU-65371
T10S-R24E Sec. 19: W/2, Sec. 30: All, Sec. 31: All
CONTIGUOUS LEASES

			CONTIGUOUS LEASES			
Description	Lease #	Lessor	Lessee(s)/WI OWNERS	Address 1	Address 2	UNIT INFO
T10S-R23E						
Sec. 24: E/2NE, NWNE	UTU-75109	USA	YATES PETRO CORP	105 S. FOURTH ST.	ARTESIA, NM 88210	
Sec. 24: W/2, SE/4, SWNE	UNLEASED	USA			THITESON, THIT GOLLO	
Sec. 25: ALL	UNLEASED	USA				
Sec. 36: ALL	UNLEASED	USA	The state of the s	en manipala mendentra in a control consecuti de control andere en en minor de la mende de la manifesta de l'amb		and the second s
1 (1) (1) (2) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4						
T11S-R23E			The state of the s	Administration of the state of		
Sec. 1: N/2N/2	UNLEASED	USA				
T10S-R24E			- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	400 - 100 m - 100 - 100 m   10		
Sec. 18: W/2, S/2SE	UTU-75121	USA	XTO ENERGY INC	810 HOUSTON ST #200	FORT WORTH, TX 76102	
Sec. 19: E/2	UNLEASED	USA				
Sec. 30: E/2	UTU-66421	USA	DIAMONDBACK OIL PARTNERS, LLP	5990 KIPLING PKWY #201	ARVADA, CO 80004	
			SEP - ROCKHOUSE, LLC	1245 BRICKYARD RD., STE 210	SALT LAKE CITY, UT 84106	
			XTO ENERGY INC.	810 HOUSTON ST #200	FORT WORTH, TX 76102	
Sec. 32: ALL	UTU-73701	USA	XTO ENERGY INC.	810 HOUSTON ST #200	FORT WORTH, TX 76102	
	UTU-76780X	USA	ENDURING RESOURCES LLC	511 16TH ST. STE 700	DENVER, CO 80202	BLACK DRAGON UNIT
T11S-R24E	_					
Sec. 6: Lots 1-5, 7-9 S/2NE, SENW	UTU-73919	USA	ENDURING RESOURCES II LLC	511 16TH ST., STE 700	DENVER, CO 80202	
THE SECOND CONTRACTOR	UTU-84718X	USA	ENDURING RESOURCES LLC	511 16TH ST., STE 700	DENVER, CO 80202	ASPHALT UNIT
				The state of the s		

API Well Number: 43047388830000

Form 3160-4 (August 2007)

#### **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

RECOMPLETION

FORM APPROVED OMB NO. 1004-0137 Expires: July 31, 2010

#### WELL COMPLETION OR RECOMPLETION REPORT AND LOG

	W	ELL CO	MPLETIC	ON OR R	ECOMPLE	TION	N REPORT	AND L	.OG			5. Lease Se	rial No.	
la. Type of b. Type of 0			Well	Gas Well Work Over	Dry Deepen	Othe Plug		. Resvr.	)				, Allottee or '	Tribe Name  It Name and No.
2 N C.	0	Othe	r:				_						ame and Well	
2. Name of	Operator											8. Lease Na	ame and well	I NO.
3. Address							3a. Phone N	lo. (incl	ude area c	ode)		9. API Wel	l No.	
4. Location	of Well (Re	eport locati	ion clearly ar	ıd in accorde	ance with Feder	al requ	uirements)*					10. Field ar	nd Pool or Ex	ploratory
At surface	e											11. Sec., T. Survey	, R., M., on I or Area	Block and
At top pro	d. interval r	reported be	low									12. County	or Parish	13. State
At total de			15 Date 7	Γ.D. Reached	1		16. Date Comp	leted				17 Elevation	ons (DF RK	B, RT, GL)*
							D & A	F	Ready to P				(==,===	
18. Total De	. TVI	D				MD TVD			20. Depth	n Bridg	e Plug S	et: MD TVD		
			cal Logs Run							DST ru		No No No	Yes (Submi Yes (Submi Yes (Submi	t report)
			port all strin				Stage Cementer	No.	of Sks. &		Slurry V	ol.		
Hole Size	Size/Gra	ade Wt.	. (#/ft.)	Top (MD)	Bottom (MI	))	Depth		of Cemen	t	(BBL)		nent Top*	Amount Pulled
24 Tubin	Danasi													
24. Tubing Size		Set (MD)	Packer Dep	oth (MD)	Size	Е	Depth Set (MD)	Packer	Depth (MI	<b>)</b> )	Size	Dep	th Set (MD)	Packer Depth (MD)
25. Produci	ng Intervals Formation		,	Гор	Bottom	26.	Perforation I Perforated In			Size	. 1	No. Holes	1	Perf. Status
A)	Politiation	11		ТОР	Bottom		r errorated fir	ici vai		SIZC	,	NO. Holes		ren. Status
B)														
C)														
D)														
	racture, Trea Depth Inter		ment Squeeze	e, etc.				mount	and Type	of Mate	erial			
	Dopui Inter	7.4.1						- Iniounit	and Type	<i>31</i> 1/1444				
20 Dun de at	: T	-1 A												
28. Product Date First		Hours	Test	Oil	Gas	Water	Oil Grav	rity	Gas		Produc	tion Method		
Produced		Tested	Production	BBL	MCF	BBL	Corr. AI	ΡĬ	Gravit	у				
	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio		Well S	tatus				
28a. Produc			m .	0.1	G	kvr	0.7.6	•.	lc.	•	b :			
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Grav Corr. AF		Gas Gravit	у	Produc	tion Method		
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio		Well S	status	1			

<sup>\*(</sup>See instructions and spaces for additional data on page 2)

	iction - Inte		m	0.1	<u></u>	KX7 -	01.0			D. 1 . 2 3 . 4 . 1	
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravi	ty	Production Method	
	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well	Status	,	
	ction - Inte			1	T=.		1			I	
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravi	ty	Production Method	
	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well	Status		
29. Dispos	sition of Gas	s (Solid, u	sed for fuel, ve	nted, etc.)	1	1	1				
30. Summ	ary of Poro	ous Zones	(Include Aqui	fers):				31. F	Formatio	n (Log) Markers	
Show a including recover	ng depth int	t zones of terval teste	porosity and cod, cushion use	ontents the	ereof: Cored in ol open, flowing	ntervals and all ng and shut-in p	drill-stem tests, pressures and				
			1								Тор
Forn	nation	Тор	Bottom		Desc	riptions, Conten	nts, etc.			Name	Meas. Depth
32. Additi	onal remark	ks (include	e plugging pro	cedure):							
						appropriate box		Panort		Directional Survey	
Sun	dry Notice fo	or plugging	s (1 full set req'	rification	ı	Geologic Report Core Analysis	Othe			Directional Survey	
34. I herel	by certify th	at the fore	egoing and atta	ched info	rmation is com	plete and correc	ct as determined	from all ava	ilable red	cords (see attached instructions)	k
					12121 . :			.1 11			

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

(Form 3160-4, page 2)

RECEIVED: Mar. 07, 2014

API Well Number: 43047388830000

#### **INSTRUCTIONS**

GENERAL: This form is designed for submitting a complete and correct well completion/recompletion report and log on all types of wells on Federal and Indian leases to a Federal agency, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal office. If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, and all types electric), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal laws and regulations. All attachments should be listed on this form, see item 33.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal office for specific instructions.

ITEM 17: Indicate which reported elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

ITEM 23: Show how reported top(s) of cement were determined, i.e. circulated (CIR), or calculated (CAL), or cement bond log (CBL), or temperature survey (TS).

#### NOTICES

The Privacy Act of 1974 and the regulation in 43 CFR 2.48 (d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. et seq.; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is to be used to evaluate the actual operations performed in the drilling, completing and testing of a well on a Federal or Indian lease.

ROUTINE USES: (1) Evaluate the equipment and procedures used during the drilling and completing/recompleting of a well. (2) The review of geologic zones and formation encountered during drilling. (3) Analyze future applications to drill in light of data obtained and methods used. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this report and disclosure of the information is mandatory once a well drilled on a Federal or Indian lease is completed/recompleted.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling and completing/recompleting wells on Federal and Indian oil and gas leases.

This information will be used to analyze operations and to compare equipment and procedures actually used with those proposed and approved.

Response to this request is mandatory only if the operator elects to initiate drilling and completing/recompleting operations on an oil and gas lease.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

(Form 3160-4, page 3)

	FORM 9						
l ı	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-77658						
SUNDR	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:				
	oposals to drill new wells, significantly reenter plugged wells, or to drill horizon for such proposals.		7.UNIT or CA AGREEMENT NAME:				
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: FEDERAL H 34-30				
2. NAME OF OPERATOR: SUMMIT OPERATING, LLC			<b>9. API NUMBER:</b> 43047388830000				
3. ADDRESS OF OPERATOR: 1245 Brickyard Road, Suite	210 , Salt Lake City, UT, 84106	PHONE NUMBER: 435 940-9001 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES				
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0602 FSL 2088 FEL	COUNTY: UINTAH						
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: SWSE Section: 3	80 Township: 10.0S Range: 24.0E Merid	lian: S	STATE: UTAH				
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA							
TYPE OF SUBMISSION		TYPE OF ACTION					
	ACIDIZE	ALTER CASING	CASING REPAIR				
☐ NOTICE OF INTENT	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME				
Approximate date work will start:	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE				
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	✓ FRACTURE TREAT	New construction				
1/28/2014							
	OPERATOR CHANGE	PLUG AND ABANDON	L PLUG BACK				
SPUD REPORT Date of Spud:	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	▼ RECOMPLETE DIFFERENT FORMATION				
	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	L TEMPORARY ABANDON				
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL				
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION				
	WILDCAT WELL DETERMINATION	OTHER	OTHER:				
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  Pulled tubing and tripped a bit and casing scraper. Tagged fill tagged at 6307'. Existing completion in the Mesa Verde at 5898'- 5930' was isolated below a composite frac plug set at 5875' and the Wasatch was perforated at 4526'- 4538', 4540'- 4544', and 4488'- 4499' with 4 spf.  Static pressure survey measured 2283.6 psi and 134.4 F at 4500'. The perforations at 4488'- 4544' were fracture stimulated using 1171 Bbls of cross-linked guar gel and 92,000 lbs of 20/40 mesh sand. Well produced temporarily to sales flowing up casing before tubing was installed. Ran 2-3/8" tubing and tagged sand fill above composite frac plug at 5636'. Did not circulate sand out. Set end of tubing at 4471' and returned well to production from the Wasatch Formation. Well completed on 1/28/2014 with 24-hour rate of 805 MCF, 0 BOPD, and 24 BWPD flowing with 149 psi TP and 227 psi CP without choke.							
NAME (PLEASE PRINT) Ellis Peterson	<b>PHONE NUMB</b> 435 940-9001	BER TITLE Sr Petroleum Engineer					
SIGNATURE		DATE 2/10/2014					

Form 3160-4 (August 2007) UNITED STATES FORM APPROVED DEPARTMENT OF THE INTERIOR OMB NO. 1004-0137 **BUREAU OF LAND MANAGEMENT** Expires: July 31, 2010 WELL COMPLETION OR RECOMPLETION REPORT AND LOG 5. Lease Serial No. la. Type of Well Oil Well Gas Well Dry Other 6. If Indian, Allottee or Tribe Name b. Type of Completion: Plug Back New Well Deepen Diff. Resvr., Work Over 7. Unit or CA Agreement Name and No. Other: 2. Name of Operator 8. Lease Name and Well No. 3. Address 9. API Well No. 3a. Phone No. (include area code) 10. Field and Pool or Exploratory 4. Location of Well (Report location clearly and in accordance with Federal requirements)\* 11. Sec., T., R., M., on Block and At surface Survey or Area At top prod. interval reported below 12. County or Parish 13. State 14. Date Spudded 15. Date T.D. Reached 16. Date Completed 17. Elevations (DF, RKB, RT, GL)\* Ready to Prod. D & A 20. Depth Bridge Plug Set: 18. Total Depth: 19. Plug Back T.D.: MD MD MD TVD TVD TVD Was well cored? 21. Type Electric & Other Mechanical Logs Run (Submit copy of each) No Yes (Submit analysis) Was DST run? No Yes (Submit report) Directional Survey? Yes (Submit copy) No 23. Casing and Liner Record (Report all strings set in well) Stage Cementer No. of Sks. & Slurry Vol. Size/Grade Wt. (#/ft.) Hole Size Top (MD) Bottom (MD) Cement Top\* Amount Pulled Depth Type of Cement (BBL) Tubing Record Depth Set (MD) Packer Depth (MD) Size Depth Set (MD) Packer Depth (MD) Size Depth Set (MD) Packer Depth (MD) 25. Producing Intervals Perforation Record Perf. Status Top No. Holes Formation Bottom Perforated Interval Size B) C) D) Acid, Fracture, Treatment, Cement Squeeze, etc. Amount and Type of Material Depth Interval 28. Production - Interval A Date First Test Date Hours Water Oil Gravity Production Method Produced Production BBLMCF BBLCorr. API Tested Gravity

Gas/Oil

Oil Gravity

Corr. API

Gas/Oil

Ratio

Ratio

Well Status

Gas

Gravity

Well Status

Production Method

24 Hr.

Rate

Test

24 Hr.

Rate

Production

Oil

BBL

BBL

Oil

BBL

Gas

MCF

Gas

MCF

Gas

MCF

Water

Water

Water

BBL

BBL

BBL

Choke

Date First

Produced

Choke

Size

Size

Tbg. Press.

Test Date

Tbg. Press.

Flwg.

Flwg.

28a. Production - Interval B

Csg.

Press.

Hours

Csg.

Press.

Tested

<sup>\*(</sup>See instructions and spaces for additional data on page 2)

Sun	dry N	(umbe	r: 477	52 A	PI Wel	l Numb	er: 43047	73888300	000		
28h Prod	uction - Inte	arval C									
Date First Produced		Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method		
Choke Size	Tbg. Press. Flwg. SI	. Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status			
28c. Prod	uction - Inte	erval D	1	<u> </u>							
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method		
Choke Size	Tbg. Press. Flwg. SI	. Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status			
-			sed for fuel, ve		)						
30. Sumn	nary of Porc	ous Zones	(Include Aqui	ifers):				31. Format	ion (Log) Markers		
Show a includi recove	ng depth in	t zones of terval teste	porosity and c	contents thed, time to	nereof: Cored ool open, flow	intervals and aling and shut-in	ll drill-stem tests, pressures and				
г				To							
Fori	nation	Top	Bottom		Des	criptions, Cont	ents, etc.		Name Meas.		
32. Addit	ional remar	ks (include	e plugging pro	ocedure):							
					a check in th	e appropriate bo	oxes:				

Electrical/Mechanical Logs (1 full set req'd.)

Sundry Notice for plugging and cement verification

Core Analysis

Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) \_\_\_\_\_\_ Title \_\_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_\_

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3) (Form 3160-4, page 2)

#### **INSTRUCTIONS**

GENERAL: This form is designed for submitting a complete and correct well completion/recompletion report and log on all types of wells on Federal and Indian leases to a Federal agency, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal office. If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, and all types electric), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal laws and regulations. All attachments should be listed on this form, see item 33.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal office for specific instructions.

ITEM 17: Indicate which reported elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

ITEM 23: Show how reported top(s) of cement were determined, i.e. circulated (CIR), or calculated (CAL), or cement bond log (CBL), or temperature survey (TS).

#### NOTICES

The Privacy Act of 1974 and the regulation in 43 CFR 2.48 (d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. et seq.; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is to be used to evaluate the actual operations performed in the drilling, completing and testing of a well on a Federal or Indian lease.

ROUTINE USES: (1) Evaluate the equipment and procedures used during the drilling and completing/recompleting of a well. (2) The review of geologic zones and formation encountered during drilling. (3) Analyze future applications to drill in light of data obtained and methods used. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this report and disclosure of the information is mandatory once a well drilled on a Federal or Indian lease is completed/recompleted.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling and completing/recompleting wells on Federal and Indian oil and gas leases.

This information will be used to analyze operations and to compare equipment and procedures actually used with those proposed and approved.

Response to this request is mandatory only if the operator elects to initiate drilling and completing/recompleting operations on an oil and gas lease.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

(Form 3160-4, page 3)

RECEIVED: Mar. 03, 2014

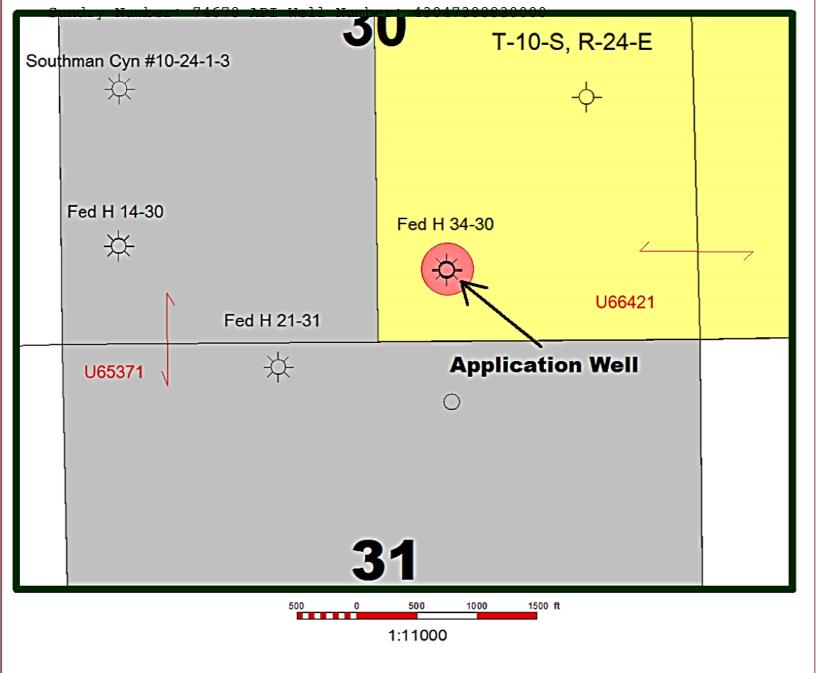
	FORM 9						
1	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-77658						
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:						
Do not use this form for pro current bottom-hole depth, I FOR PERMIT TO DRILL form	7.UNIT or CA AGREEMENT NAME:						
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: FEDERAL H 34-30						
2. NAME OF OPERATOR: SUMMIT OPERATING, LLC	<b>9. API NUMBER:</b> 43047388830000						
3. ADDRESS OF OPERATOR: 531 East 770 North , Orem	, UT, 84097 801-65		ONE NUMBER: 0 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0602 FSL 2088 FEL	COUNTY: UINTAH						
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: SWSE Section: 3	STATE: UTAH						
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA							
TYPE OF SUBMISSION			TYPE OF ACTION				
NOTICE OF INTENT Approximate date work will start:  12/1/2016  SUBSEQUENT REPORT Date of Work Completion:  SPUD REPORT Date of Spud:  DRILLING REPORT Report Date:  12. DESCRIBE PROPOSED OR	CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR WATER SHUTOFF WILDCAT WELL DETERMINATION  COMPLETED OPERATIONS. Clearly show See Attached.		CHANGE TUBING  COMMINGLE PRODUCING FORMATIONS  FRACTURE TREAT  PLUG AND ABANDON  RECLAMATION OF WELL SITE  SIDETRACK TO REPAIR WELL  VENT OR FLARE  SI TA STATUS EXTENSION  OTHER  Prinent details including dates, d	CASING REPAIR  CHANGE WELL NAME  CONVERT WELL TYPE  NEW CONSTRUCTION  PLUG BACK  RECOMPLETE DIFFERENT FORMATION  TEMPORARY ABANDON  WATER DISPOSAL  APD EXTENSION  OTHER:  Depths, volumes, etc.  Approved by the Unatoberislion 2016  Oil, Gas and Mining  Date:  By:			
NAME (PLEASE PRINT)	PHONE NUM	1BER	TITLE				
Ellis Peterson  SIGNATURE	801 657-5780		Sr Petroleum Engineer  DATE 9/27/2016				

Summit Operating, LLC Federal H 34-30 API 43-047-38883

#### **Comingle Request Description**

In order to prevent waste of natural gas; to protect the correlative rights of all parties concerned; to prevent the drilling of un-necessary wells; and to insure proper and efficient recovery and promote conservation of the natural gas resources of the State of Utah, Summit Operating, LLC respectfully requests approval to commingle production from the Wasatch and Mesaverde formation "pools" in the same well bore.

- Ownership in both formations is the same. However, in the event allocation of
  production is necessary, that allocation will be based on the proportionate production
  volumes from each pool during the last full month each pool produced individually
  under stable conditions.
- 2. Both formations shall be commingled in the well bore and produced concurrently through a single string of 2-3/8" production tubing.
- 3. Attached is a map showing the location of wells on contiguous oil and gas leases and/or production units.
- 4. Also attached is an affidavit confirming that this application has been provided to leasehold owners in contiguous oil and gas leases or production pools overlying the "pool"



# **Summit Operating LLC**

Asphalt Wash Gas Field Uintah County, Utah

Commingling Application For: Fed H 34-30

## AFFIDAVIT OF MAILING

STATE OF UTAH }
} ss.
County of Utah }

COMES NOW, Larry R. Williams, (hereinafter referred to as "Affiant"), being first duly sworn upon oath and deposes and says the following:

- 1. Affiant is a citizen of the United States of America, is over 21 years of age, currently resides in Salt Lake County, Utah, is the Land Manager and Corporate Counsel for Summit Operating, LLC (hereafter referred to as "Summit") and has personal knowledge of the facts set forth herein;
- 2. Summit is the Operator of the Fed H 34-30 Well which is located in the Southwest Quarter of the Southeast Quarter of Section 30, Township 10 South, Range 24 East, Uintah County, Utah.
- 3. Exhibit A, which is attached hereto and made a part hereof, is a map showing the location of wells located on contiguous oil and gas leases and/or drilling units in relation to the Fed H 34-30 Well. A search of the applicable records has revealed that the parties listed on Exhibit B, which is attached hereto and made a part hereof, are the only interest owners of the contiguous oil and gas leases, or the contiguous drilling units overlying the pool.
- 4. On September 27, 2016 Affiant mailed, or caused to be mailed, in the U.S. Mail, with postage prepaid, a copy of the attached Application for Commingling two or more pools (formations) in one well bore of the well described in Paragraph 2 above which is has been or is being filed with the State of Utah Division of Oil, Gas and Mining to each of the owners listed on Exhibit B.

Further the Affiant sayeth not.

Dated: September 27, 2016

arry R. Williams, Affiant

**JURAT** 

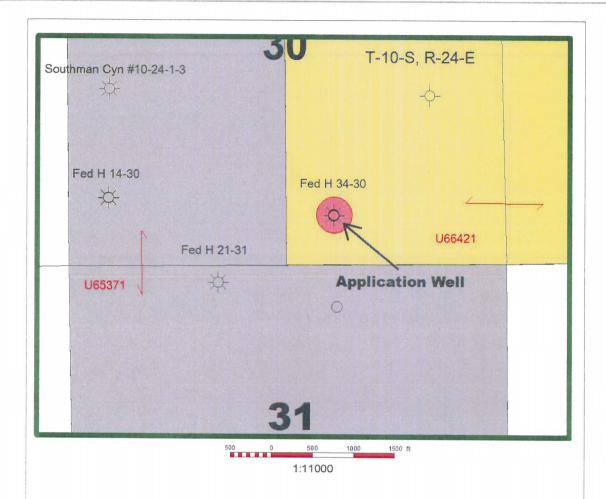
Subscribed to and sworn before me this 27th day of September, 2016.

KRISTI HIGGS

Notary Public, State of Utah
Commission # 685539
My Commission Expires
October 24, 2019

Notary Public

## **EXHIBIT A**



## **Summit Operating LLC**

Asphalt Wash Gas Field Uintah County, Utah

Commingling Application For: Fed H 34-30

## **EXHIBIT B**

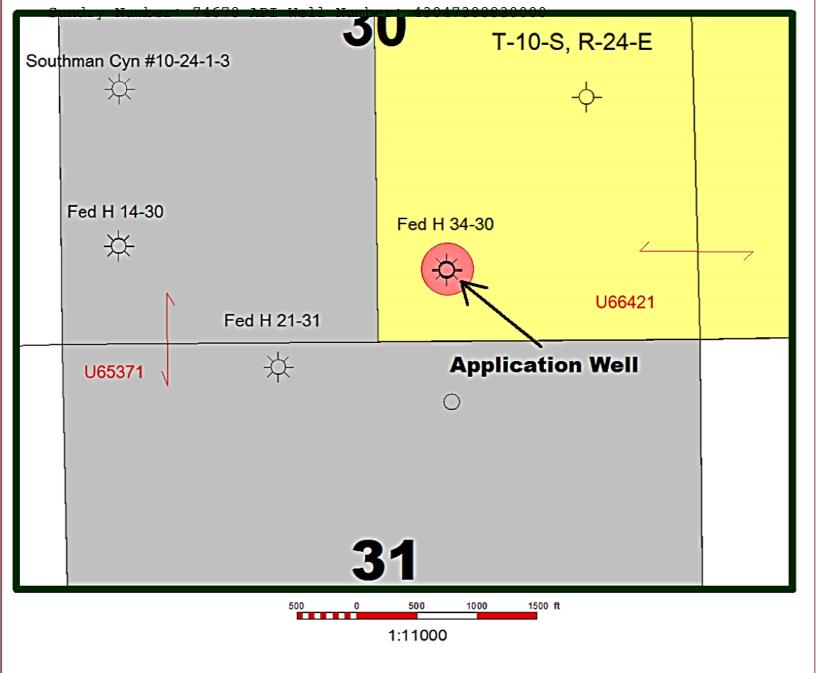
### CONTIGUOUS LEASE OR DRILLING UNIT OWNERS

SEP – Rockhouse, LLC 531 E 770 N Orem, UT 84097

XTO Energy, Inc. 810 Houston Street, #2000 Fort Worth, TX 76102

Enduring Resources II, LLC 511 16<sup>th</sup> Street, #700 Denver, CO 80202 Diamondback Oil Partners, LLP 5990 Kipling Pkwy, #201 Arvada, CO 80004

Cross Timber Energy, LLC 400 W 7<sup>th</sup> Street Fort Worth, TX 76102



# **Summit Operating LLC**

Asphalt Wash Gas Field Uintah County, Utah

Commingling Application For: Fed H 34-30

## AFFIDAVIT OF MAILING

STATE OF UTAH }
} ss.
County of Utah }

COMES NOW, Larry R. Williams, (hereinafter referred to as "Affiant"), being first duly sworn upon oath and deposes and says the following:

- 1. Affiant is a citizen of the United States of America, is over 21 years of age, currently resides in Salt Lake County, Utah, is the Land Manager and Corporate Counsel for Summit Operating, LLC (hereafter referred to as "Summit") and has personal knowledge of the facts set forth herein;
- 2. Summit is the Operator of the Fed H 34-30 Well which is located in the Southwest Quarter of the Southeast Quarter of Section 30, Township 10 South, Range 24 East, Uintah County, Utah.
- 3. Exhibit A, which is attached hereto and made a part hereof, is a map showing the location of wells located on contiguous oil and gas leases and/or drilling units in relation to the Fed H 34-30 Well. A search of the applicable records has revealed that the parties listed on Exhibit B, which is attached hereto and made a part hereof, are the only interest owners of the contiguous oil and gas leases, or the contiguous drilling units overlying the pool.
- 4. On September 27, 2016 Affiant mailed, or caused to be mailed, in the U.S. Mail, with postage prepaid, a copy of the attached Application for Commingling two or more pools (formations) in one well bore of the well described in Paragraph 2 above which is has been or is being filed with the State of Utah Division of Oil, Gas and Mining to each of the owners listed on Exhibit B.

Further the Affiant sayeth not.

Dated: September 27, 2016

arry R. Williams, Affiant

**JURAT** 

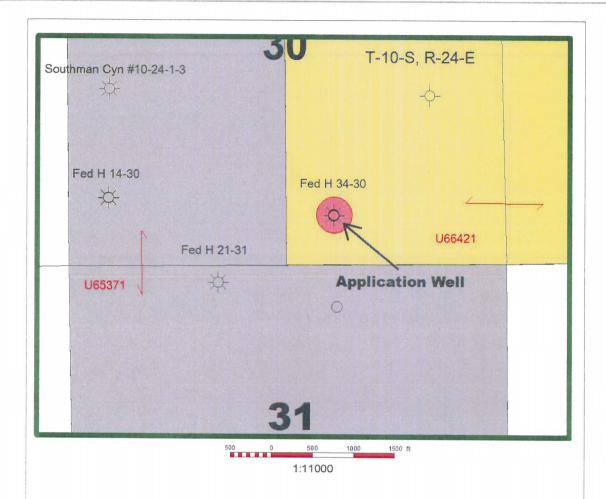
Subscribed to and sworn before me this 27th day of September, 2016.

KRISTI HIGGS

Notary Public, State of Utah
Commission # 685539
My Commission Expires
October 24, 2019

Notary Public

## **EXHIBIT A**



## **Summit Operating LLC**

Asphalt Wash Gas Field Uintah County, Utah

Commingling Application For: Fed H 34-30

## **EXHIBIT B**

### CONTIGUOUS LEASE OR DRILLING UNIT OWNERS

SEP – Rockhouse, LLC 531 E 770 N Orem, UT 84097

XTO Energy, Inc. 810 Houston Street, #2000 Fort Worth, TX 76102

Enduring Resources II, LLC 511 16<sup>th</sup> Street, #700 Denver, CO 80202 Diamondback Oil Partners, LLP 5990 Kipling Pkwy, #201 Arvada, CO 80004

Cross Timber Energy, LLC 400 W 7<sup>th</sup> Street Fort Worth, TX 76102